

FIG. 1

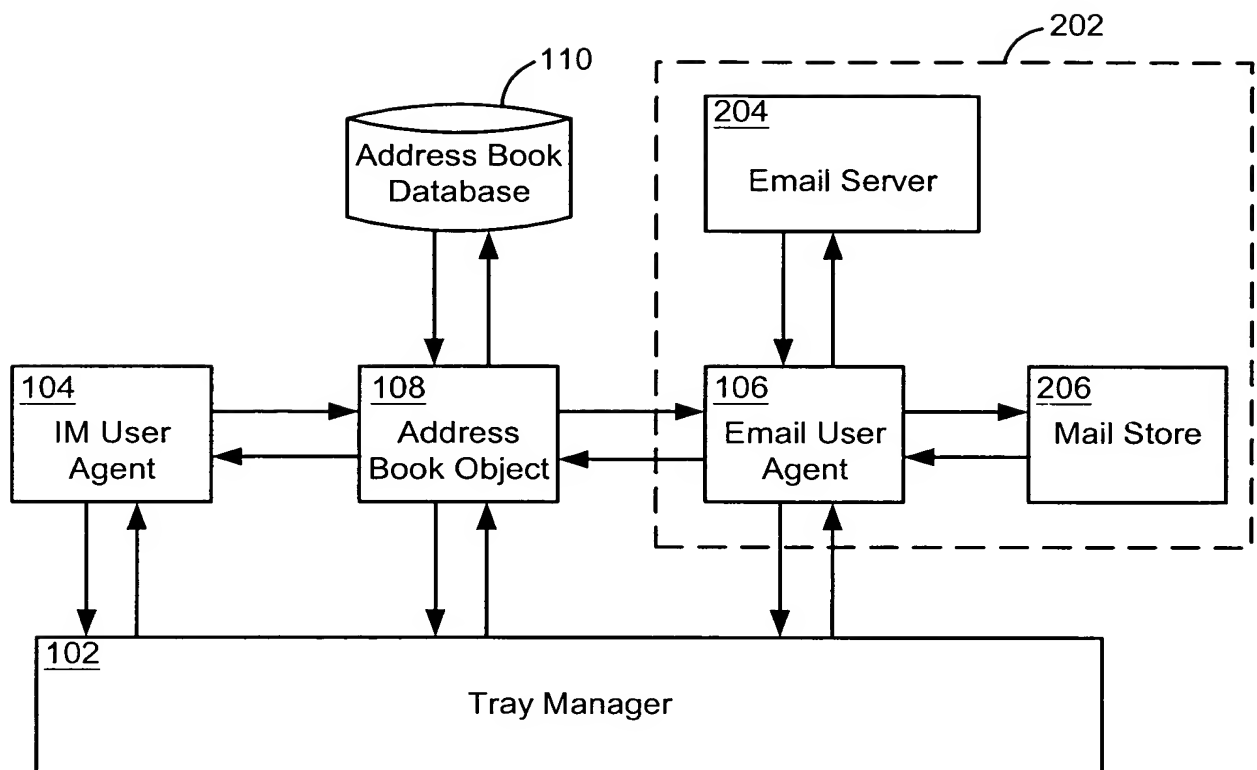


FIG. 2A

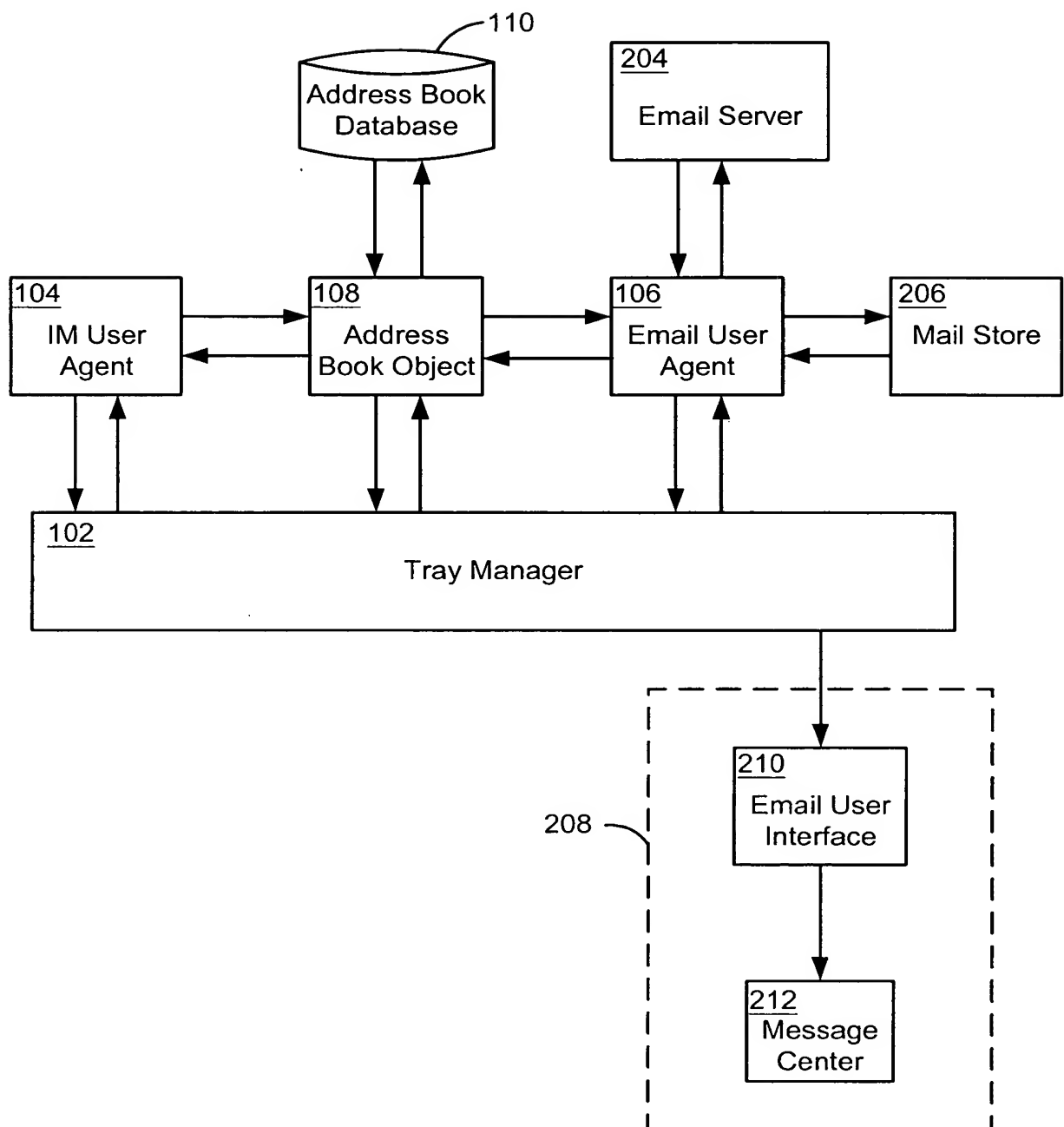


FIG. 2B

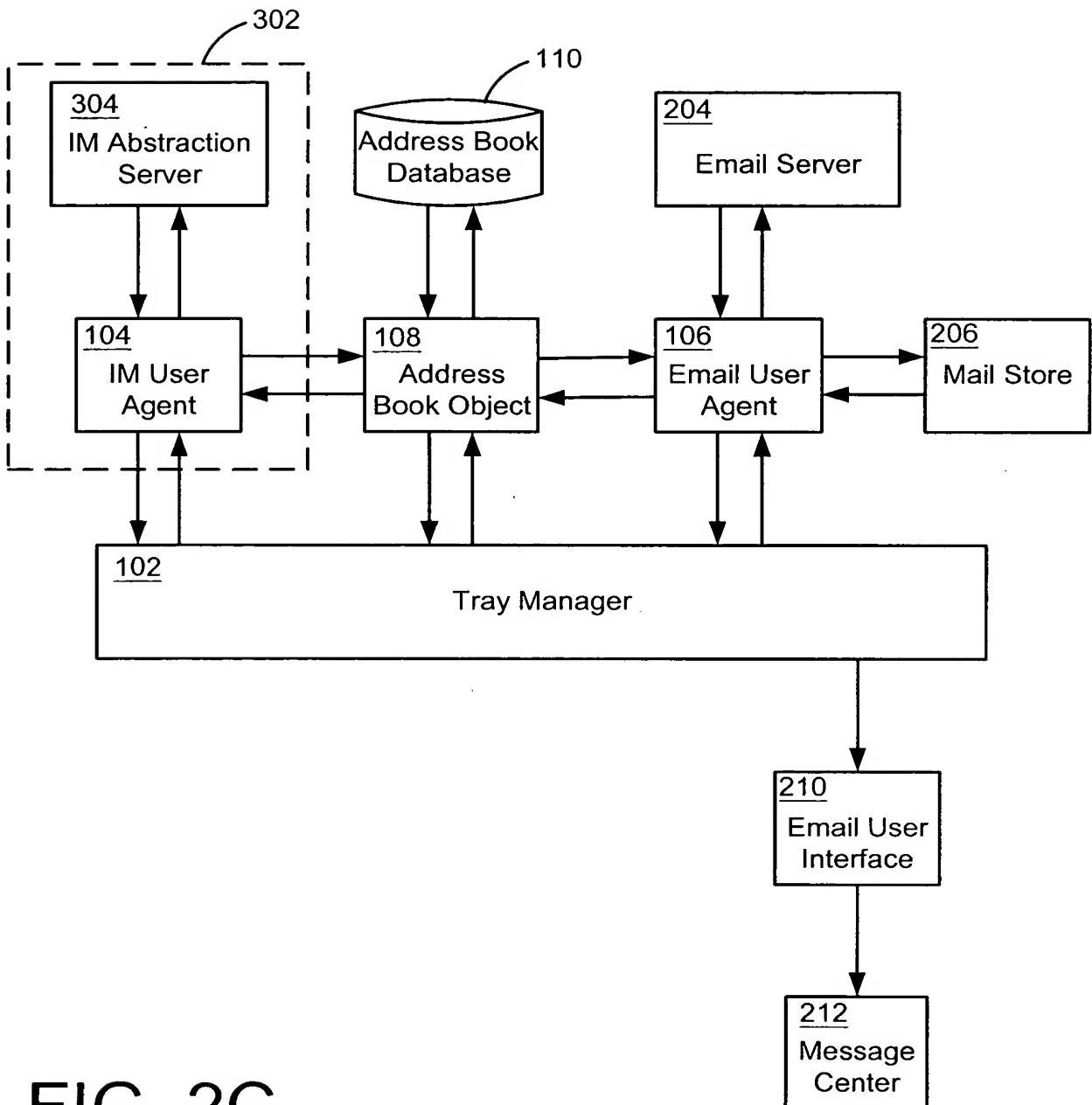


FIG. 2C

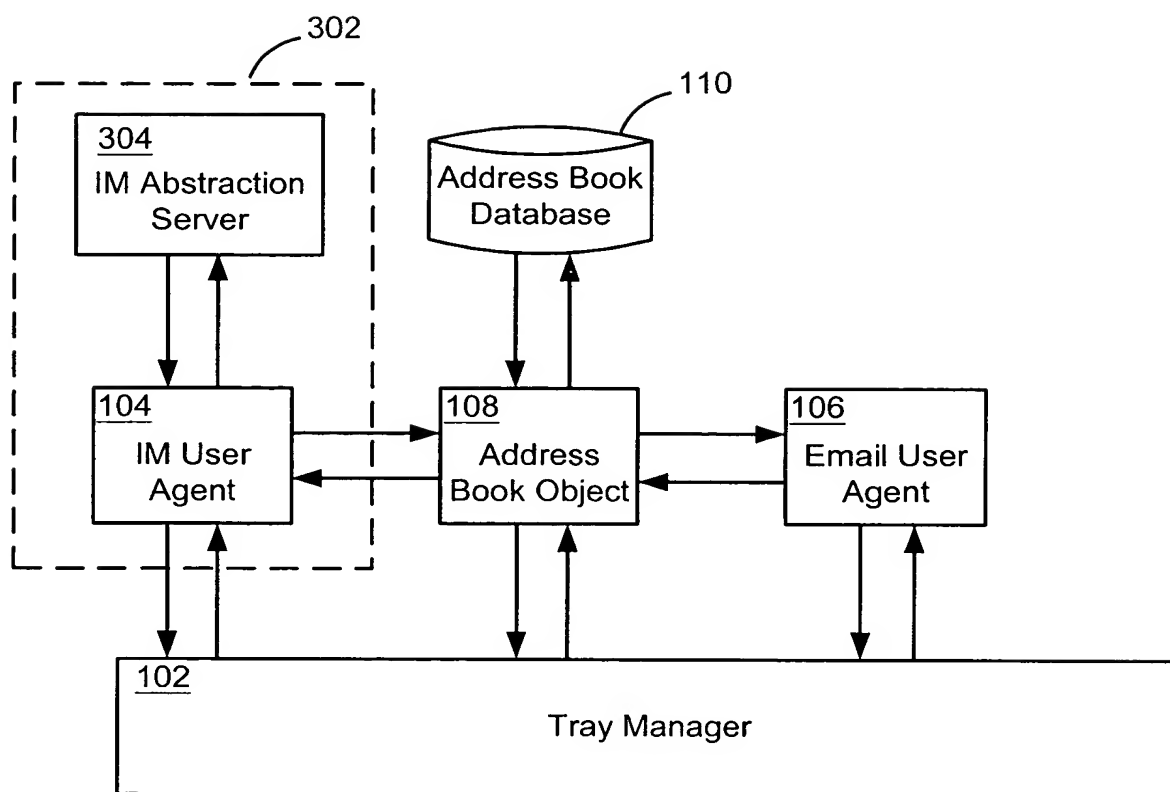


FIG. 3A

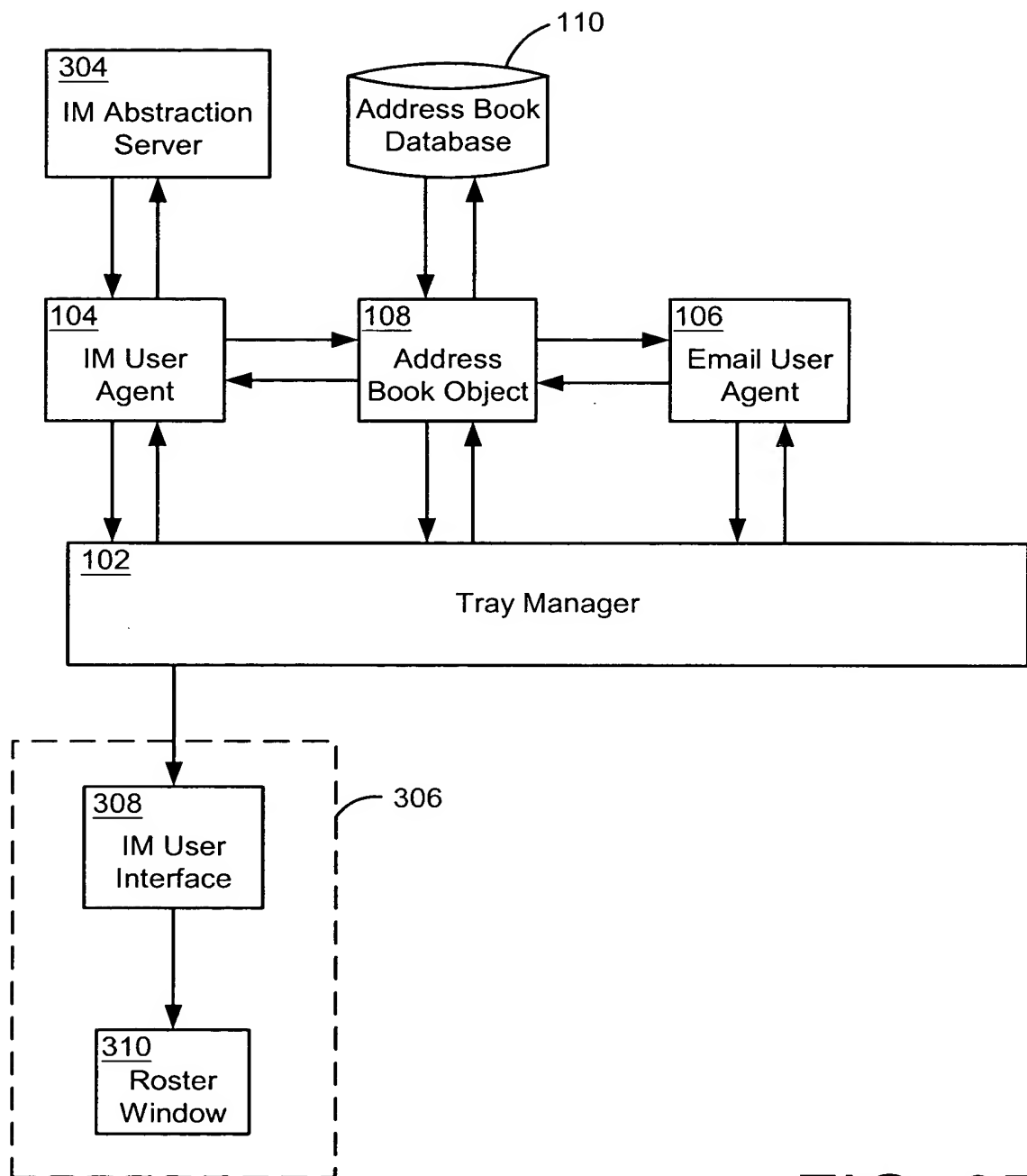


FIG. 3B

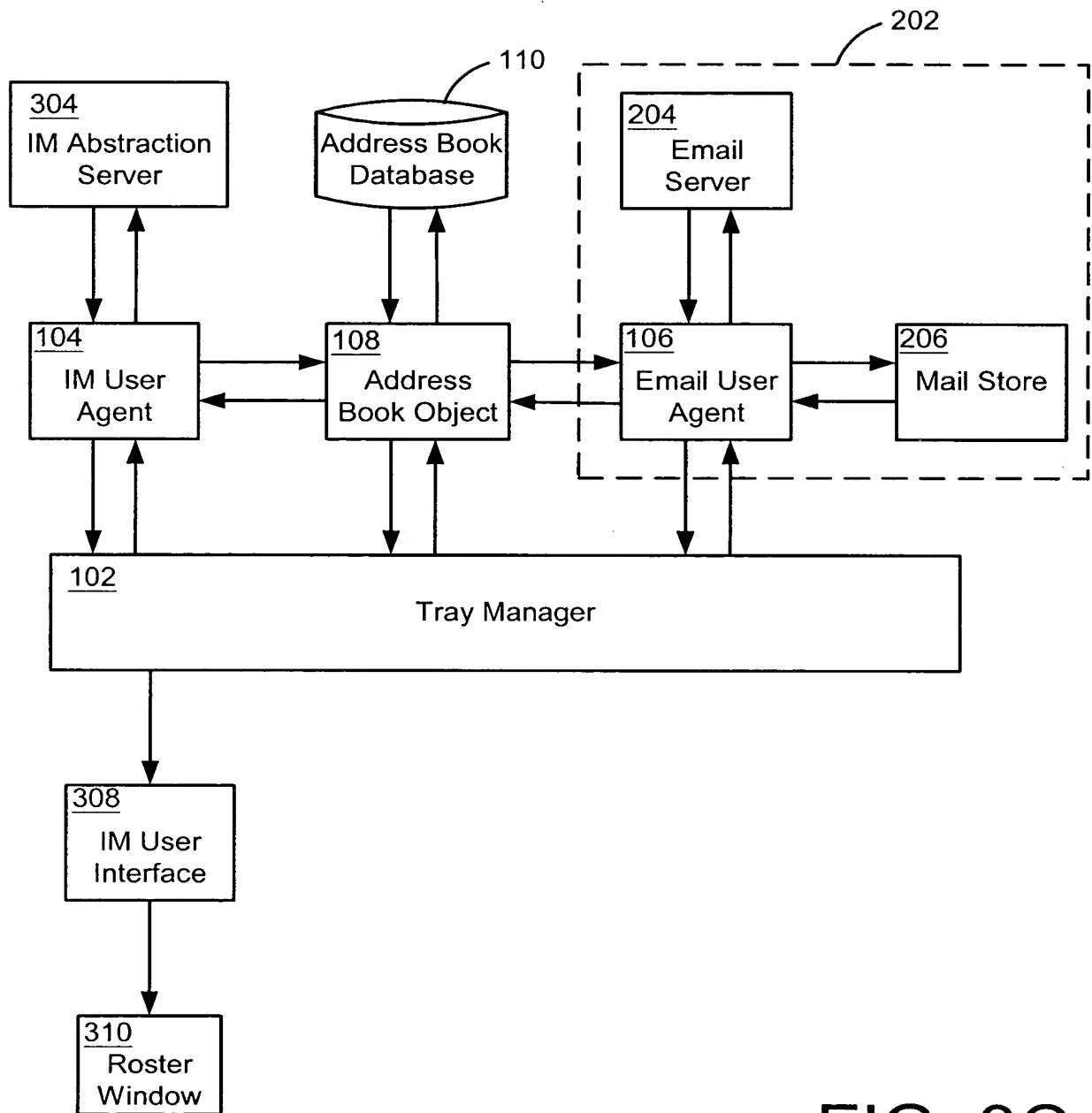


FIG. 3C

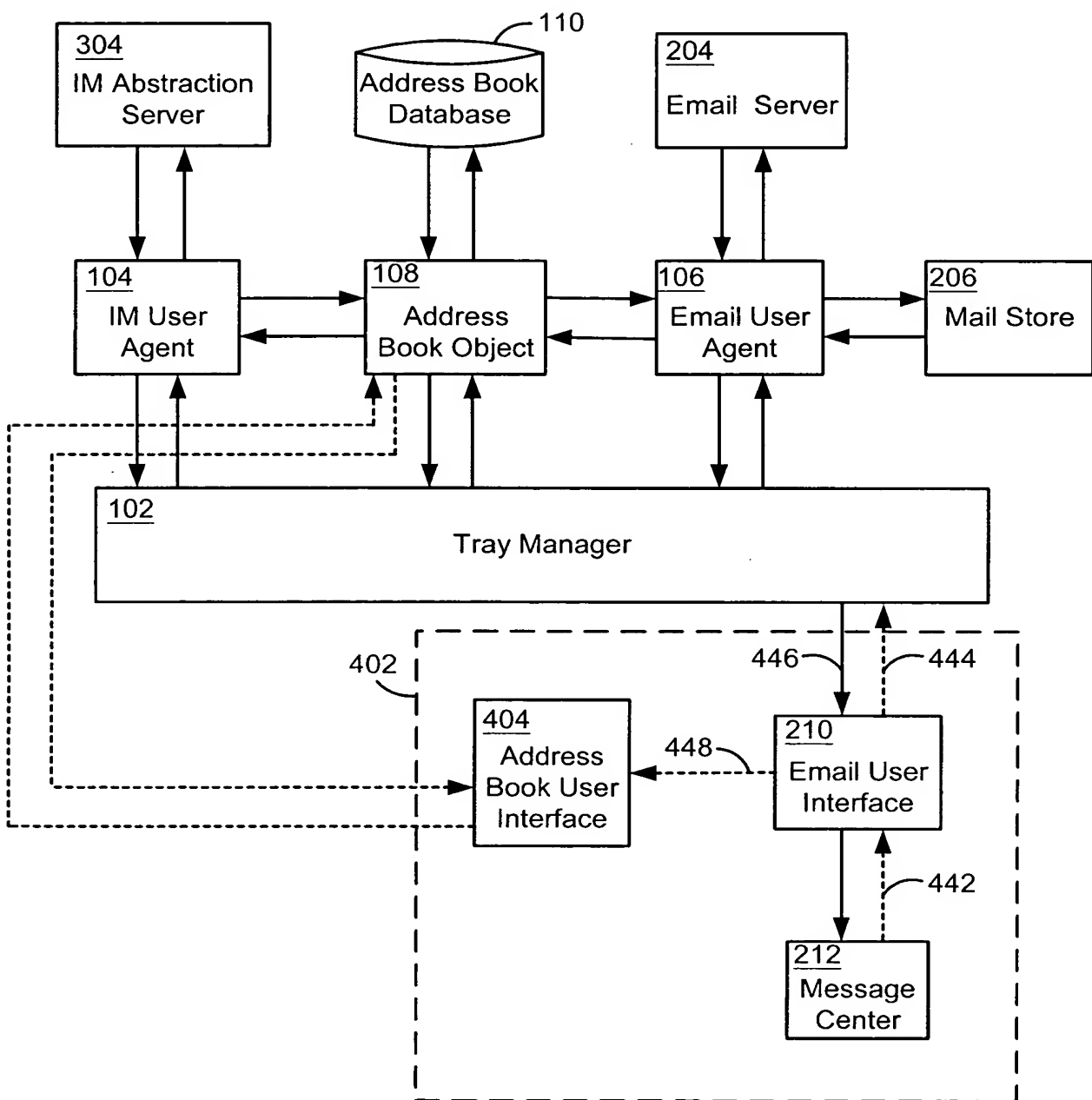


FIG. 4A



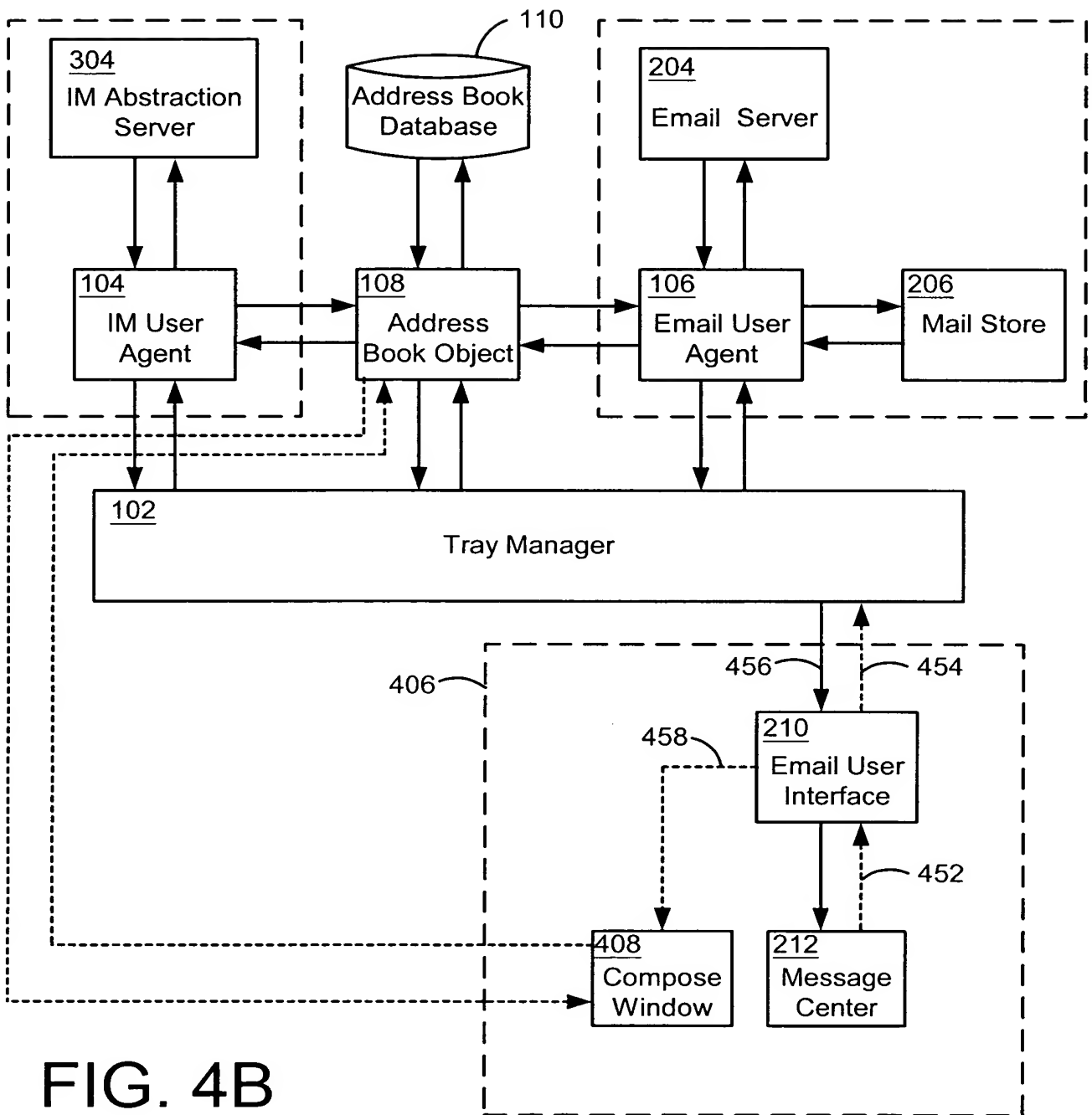


FIG. 4B

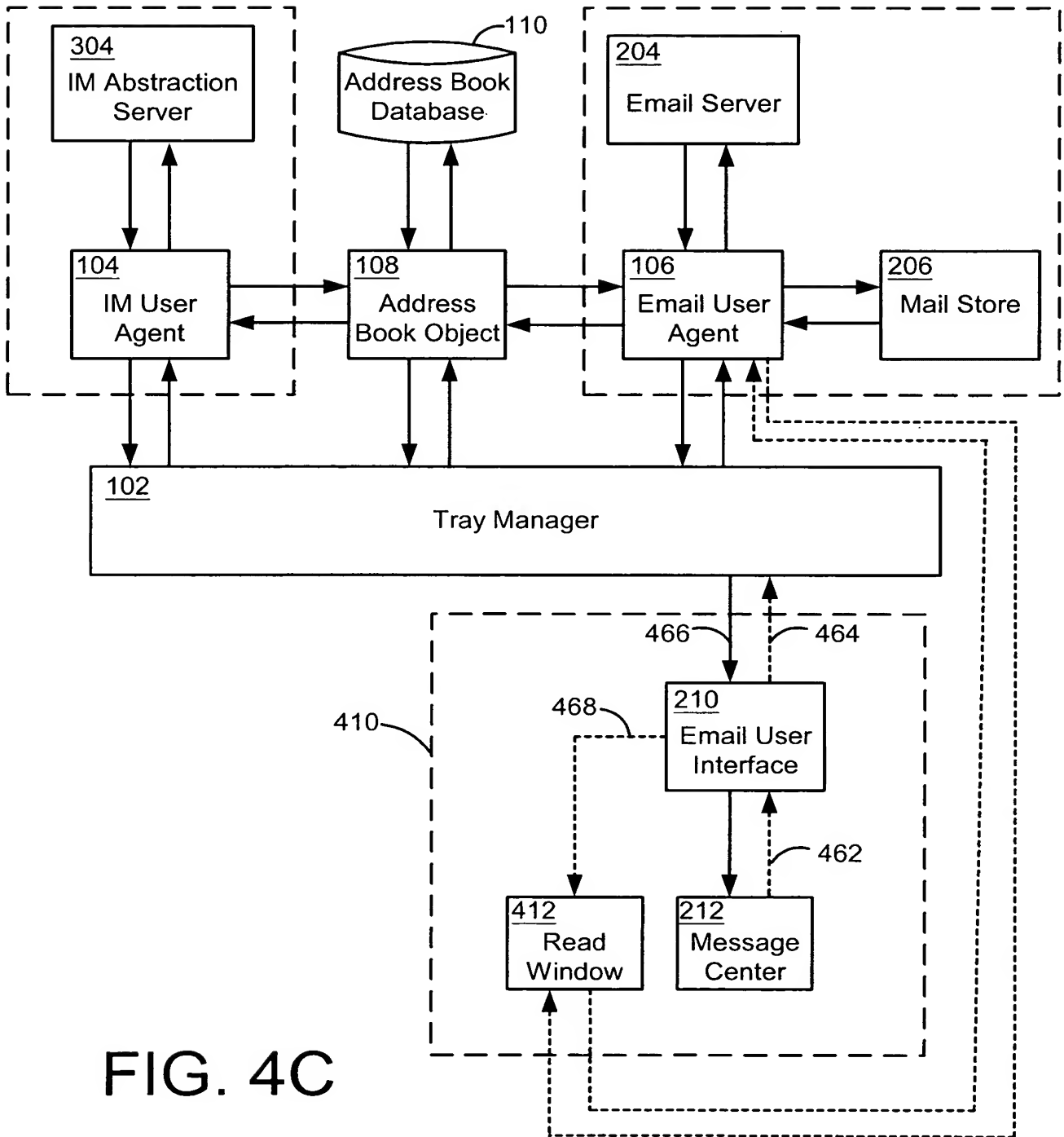


FIG. 4C

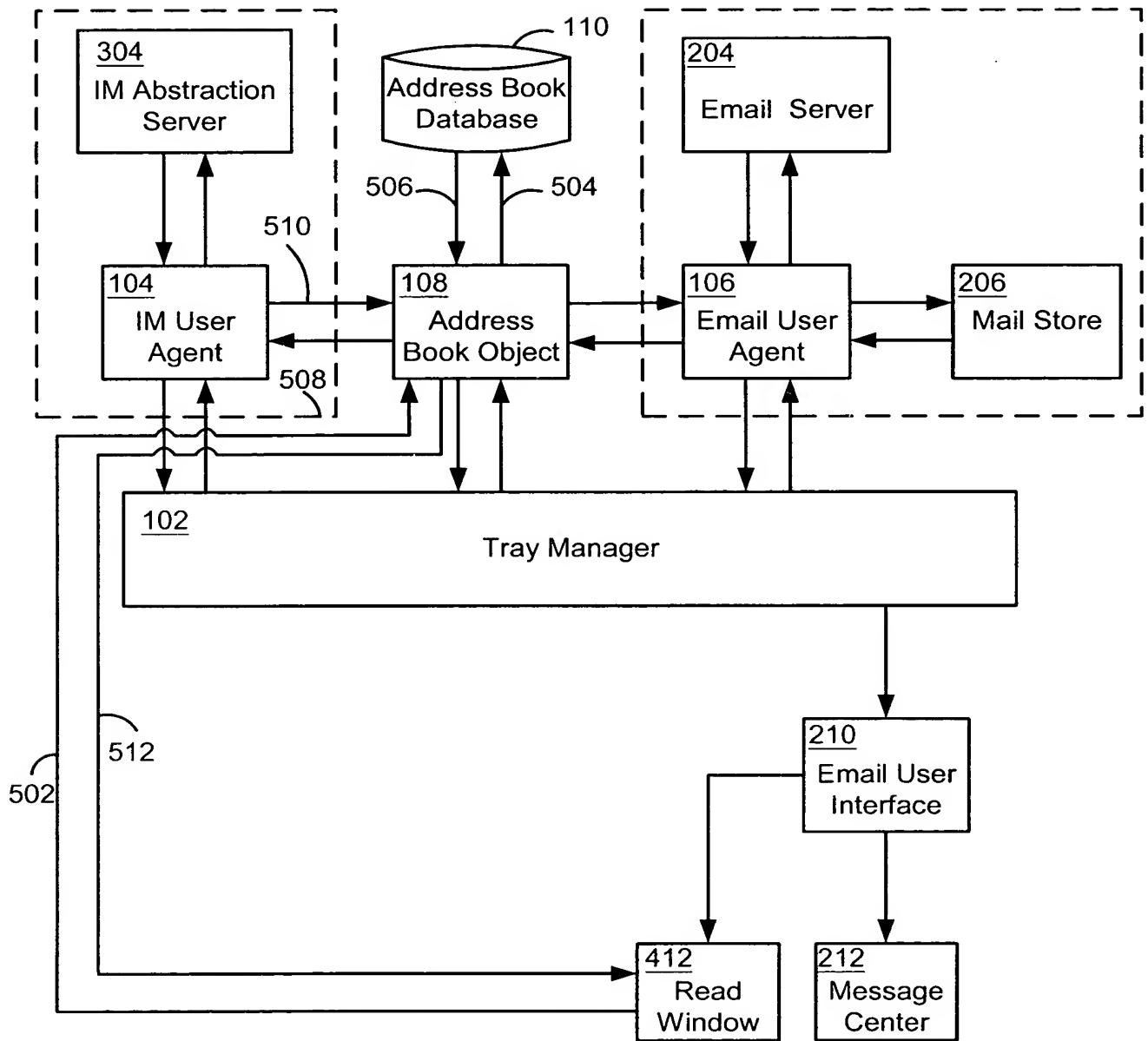


FIG. 5

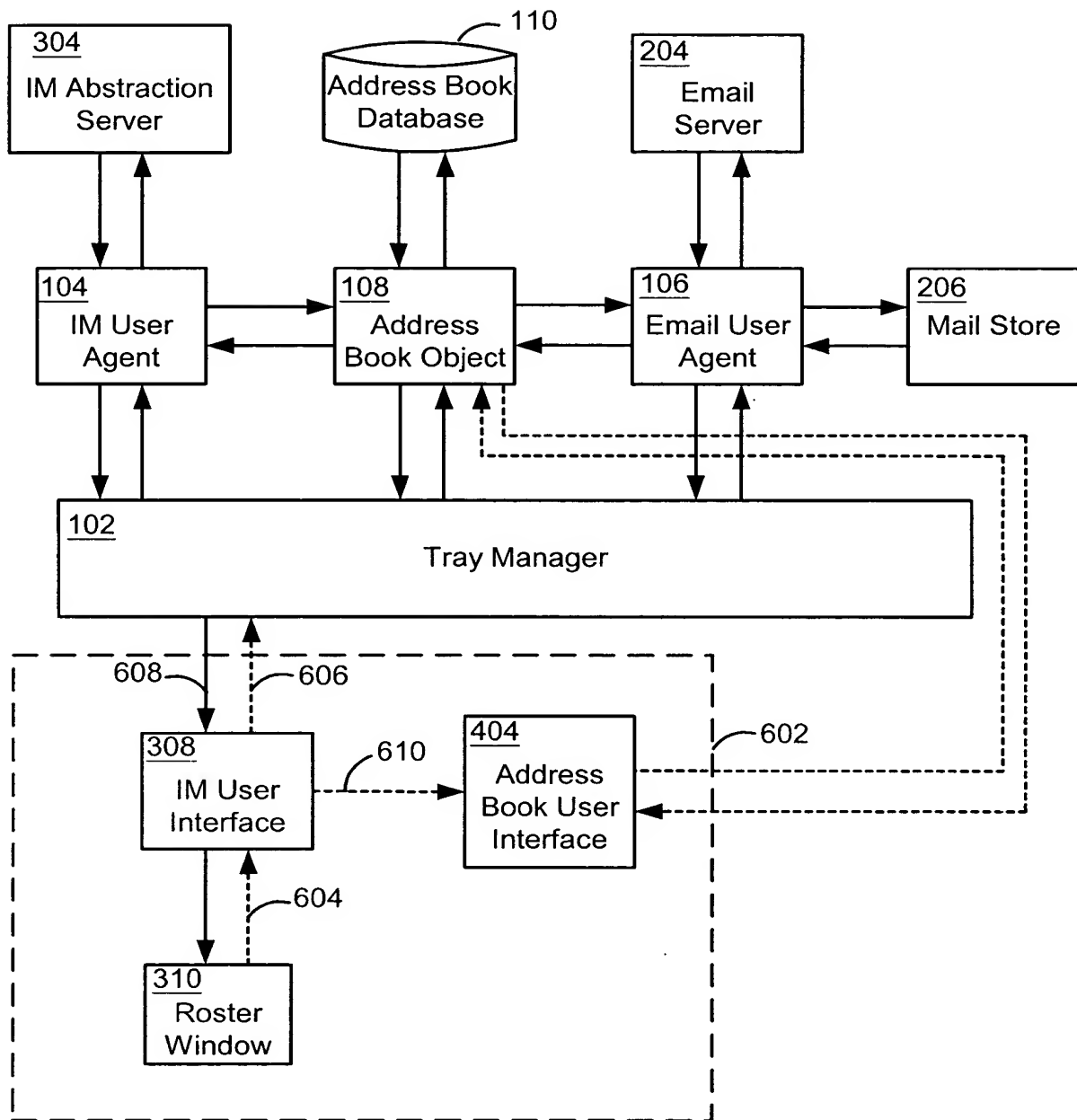


FIG. 6A

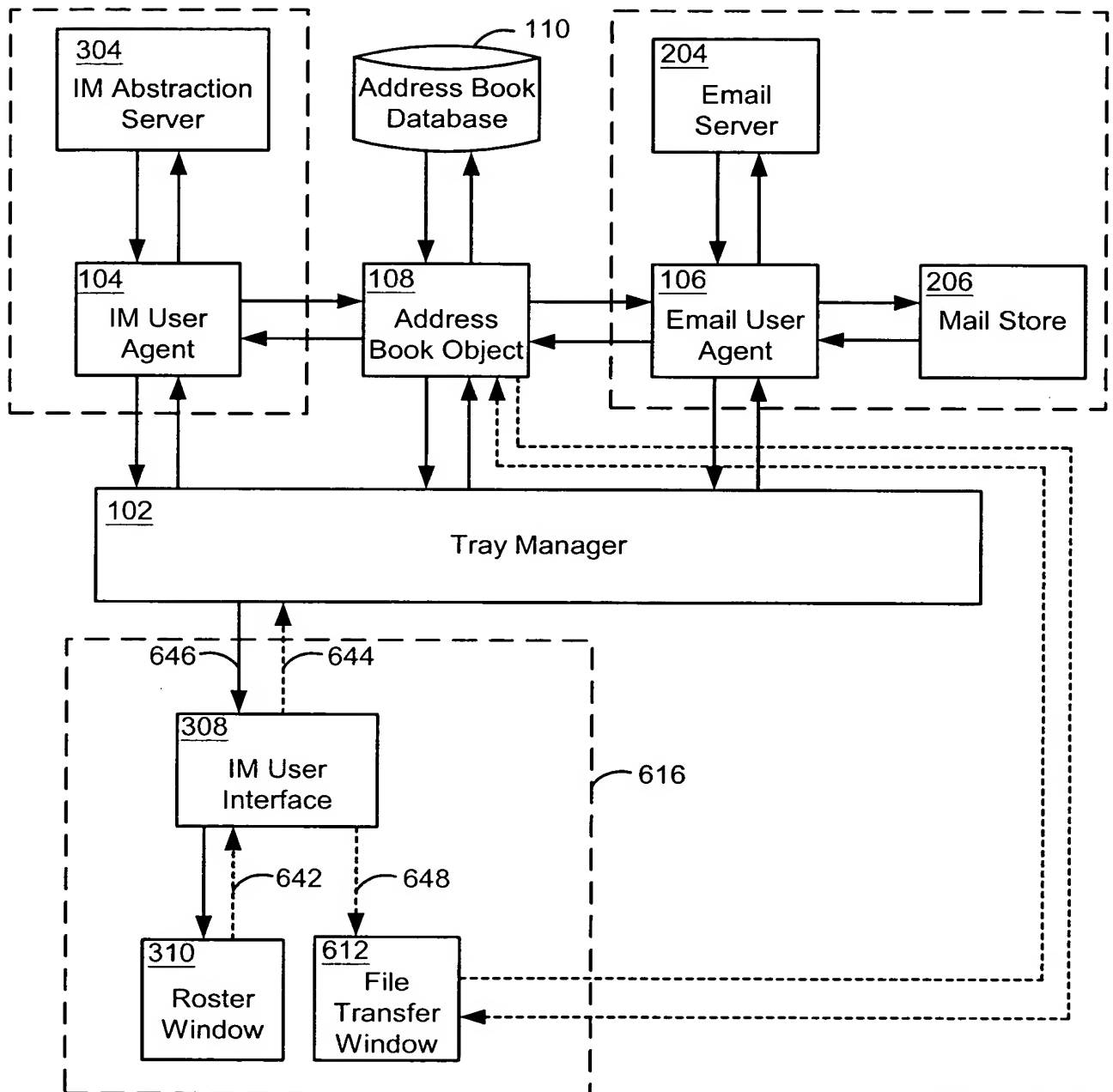


FIG. 6B

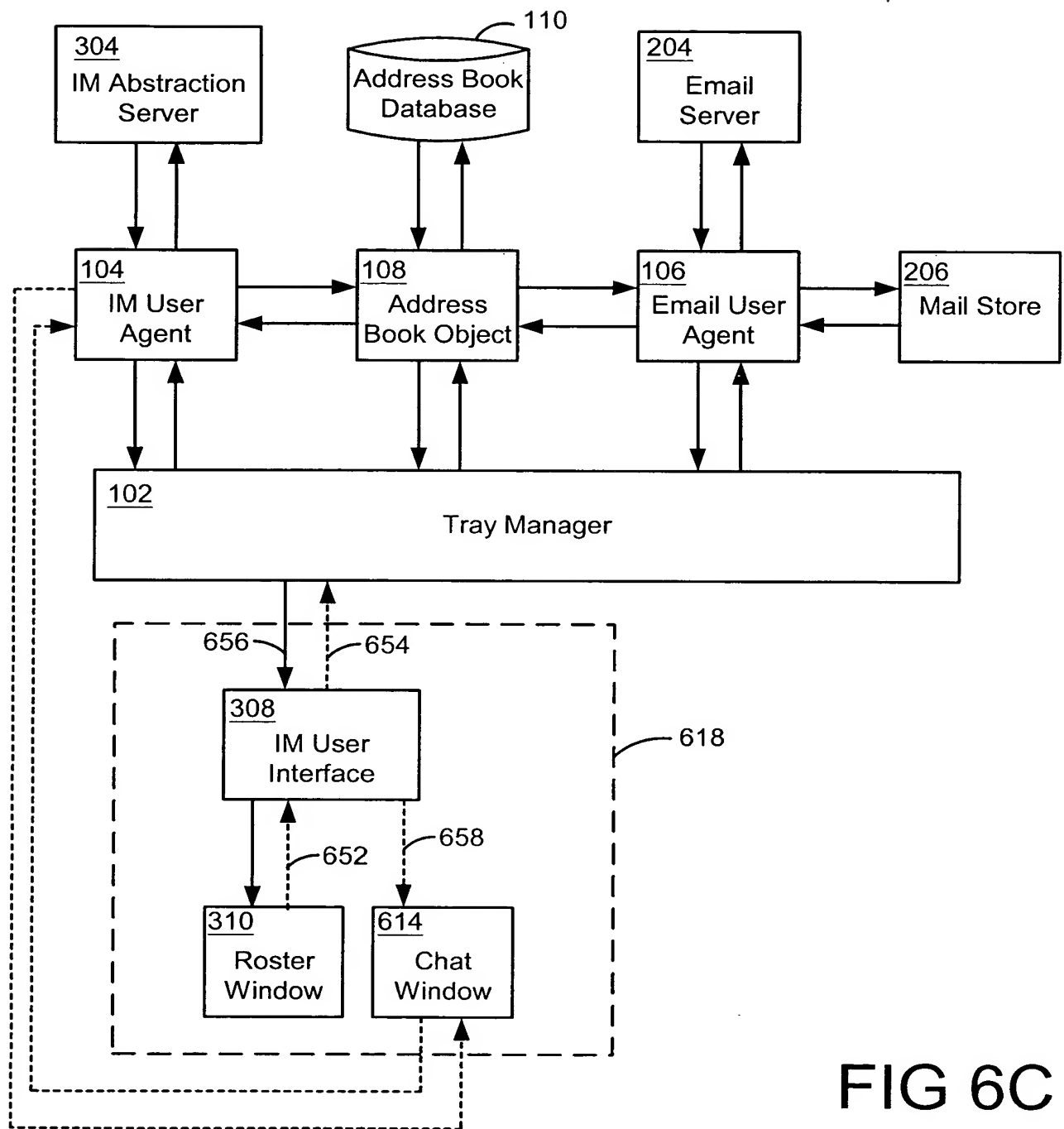


FIG 6C

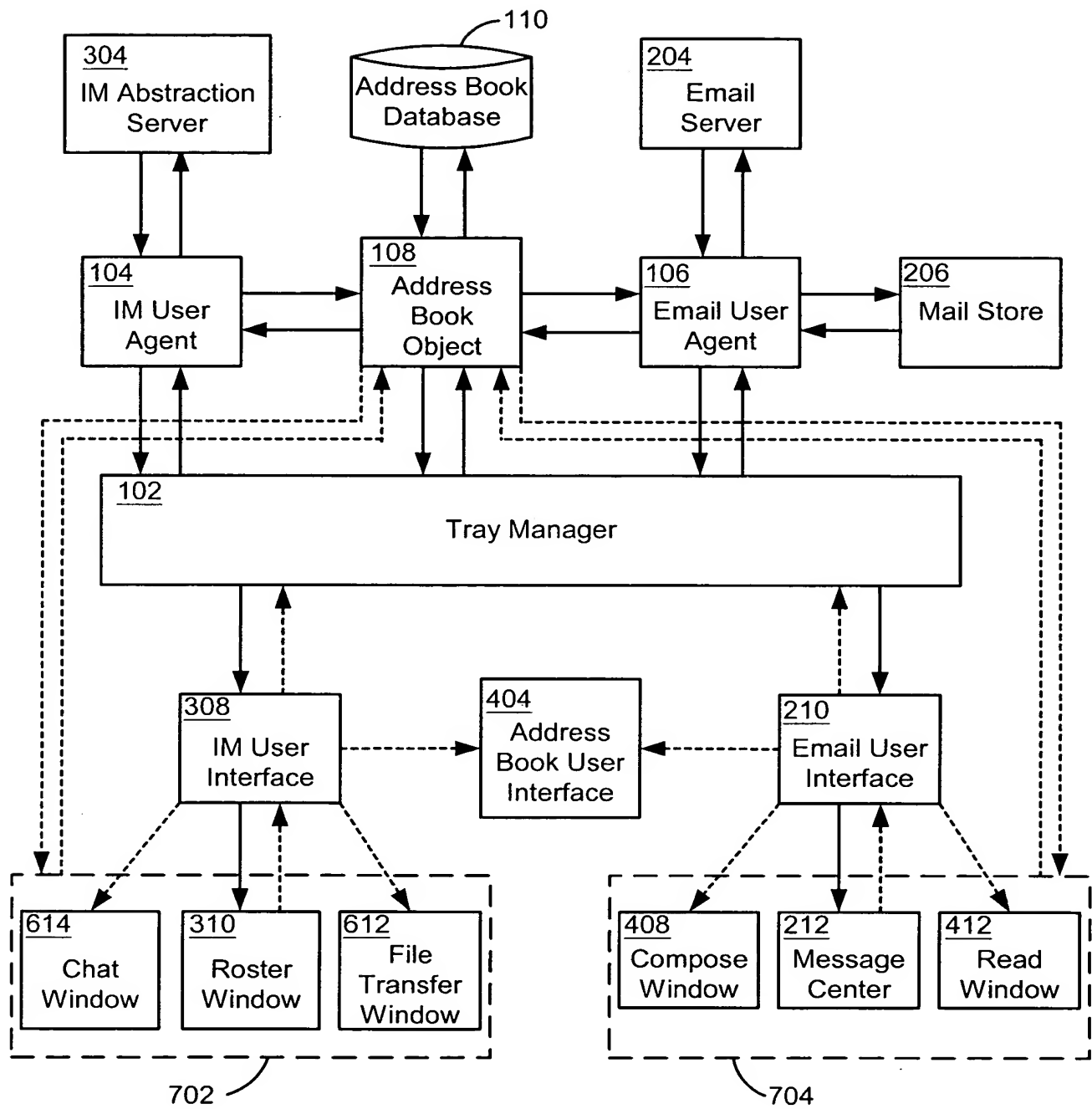


FIG. 7

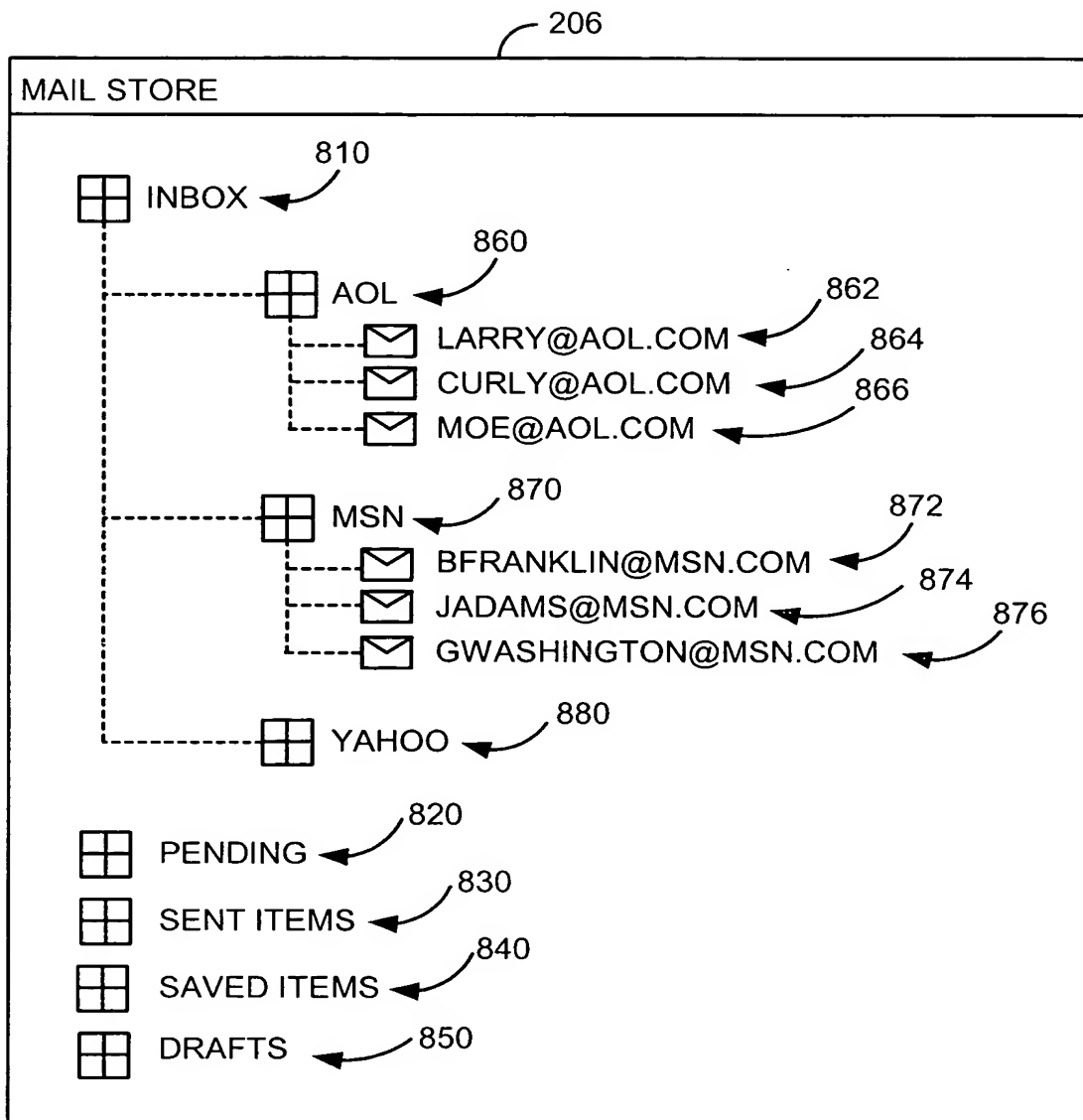


FIG. 8



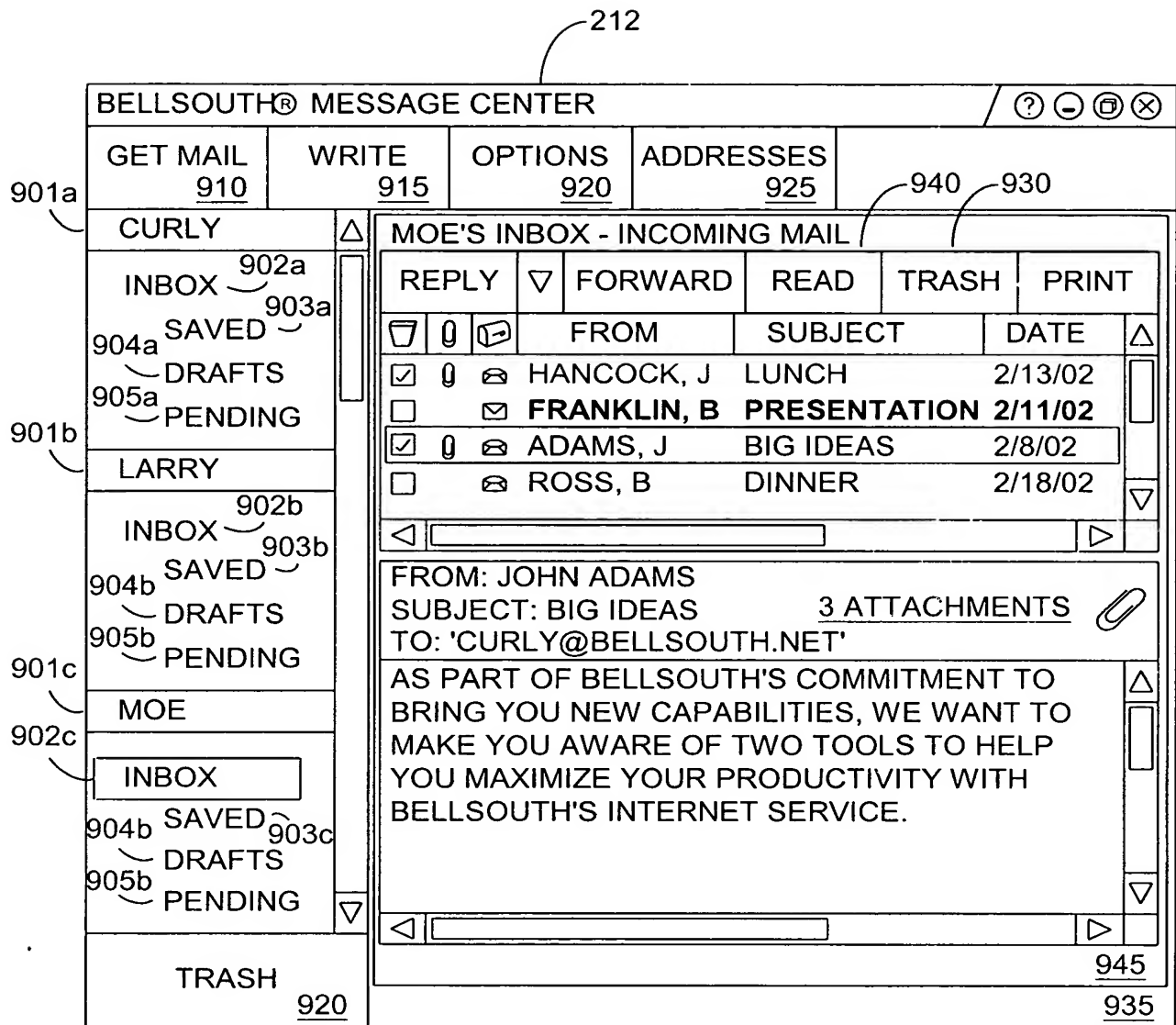


FIG. 9

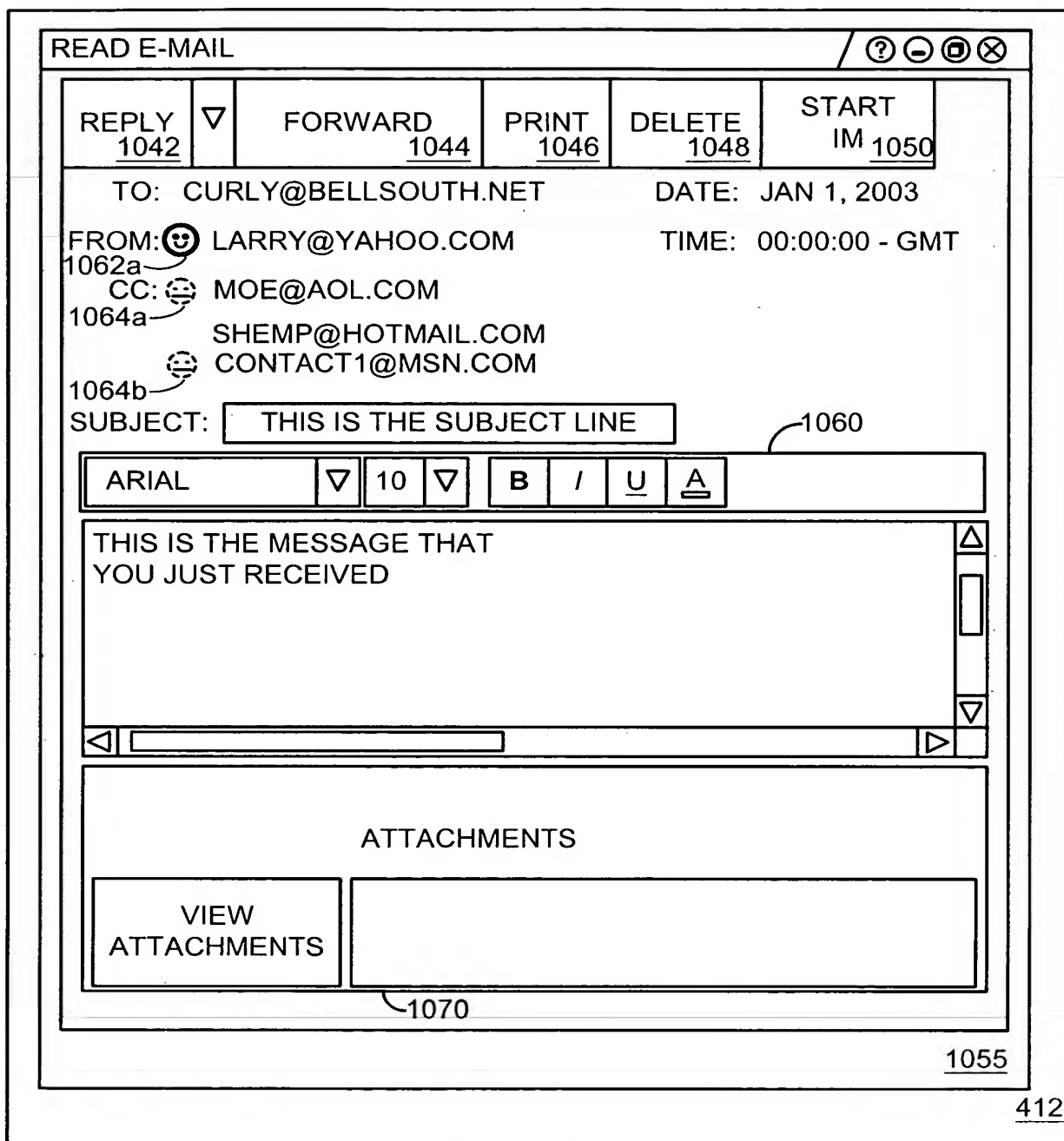


FIG. 10

ADDRESS BOOK

YOUR CONTACTS ARE IN ALPHABETICAL ORDER BY LAST NAME. TO FIND A SPECIFIC CONTACT, YOU CAN SCROLL THROUGH THE LIST OR USE THE SELECTION BUTTONS BELOW TO NARROW YOUR SEARCH. TO SEE A CONTACT'S COMPLETE INFORMATION DETAILS SELECT "CLICK."

LAST NAMES A-K

LAST NAMES L-Z

NUMBERS

E-MAIL LISTS

SELECT RECIPIENTS

1110

1115

1120

TO:

CC:

NAME

E-MAIL ADDRESS

<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACH, JOHANN	BACHMAN@AOL.COM	DETAILS
<input type="checkbox"/>	<input type="checkbox"/>	BAER, MAX	MAX@BELLSOUTH.NET	DETAILS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	BALDWIN, ALEC	BALD@EARTHLINK.NET	DETAILS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	BALDWIN, KIM	KIM@BELLSOUTH.NET	DETAILS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	BEST, PETE	BEST@HOTMAIL.COM	DETAILS
<input type="checkbox"/>	<input type="checkbox"/>	BUNDY, AL	BUNDY@EXCITE.COM	DETAILS
<input type="checkbox"/>	<input type="checkbox"/>	BUNDY, PEG	PEGGY@AOL.COM	DETAILS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	CARTER, JIMMY	PEANUT@GO.COM	DETAILS

305

WRITE

NEW CONTACT

NEW E-MAIL LIST

DELETE

EDIT

CANCEL

1125

1130

1135

1140

1145

1150

1155

404

FIG. 11

ADD NEW CONTACT			/? - + X
<b>CONTACT NAME</b>			
LAST	<input type="text" value="HOWARD"/>	FIRST	<input type="text" value="CURLY"/>
		M.I.	<input type="text" value="Q"/> 1260
<b>E-MAIL</b>		<b>INSTANT MESSAGING (IM)</b>	
<input type="text" value="CURLY@BELLSOUTH.NET"/>		ENTER IM ADDRESS(ES) HERE, TO CHAT FROM "READ" WINDOW	
<input type="text" value="WORK"/> ▾		<input type="text" value="CURLY2002"/> <input type="text" value="BELLSOUTH"/>	
<input type="text" value="WISEGUY@STOOGES.NET"/>		<input type="text" value="STOOGES1935"/> <input type="text" value="AOL"/> ▾	
<input type="text" value="HOME"/> ▾		<input type="text" value="THECURLYMAN"/> <input type="text" value="HOTMAIL"/> ▾	
1265		<input type="text" value="WHYIOTTA"/> <input type="text" value="PASSPORT"/> ▾	
<b>E-MAIL LIST(S)</b>		1280	
<input type="text" value="STOOGES GROUP"/>		<b>STREET ADDRESS</b>	
<input type="button" value="EDIT"/>		<input type="text" value="1313 MOCKINGBIRD LN."/> LINE 1	
1270		<input type="text" value="SUITE 1234"/> LINE 2	
<b>PHONE NUMBER(S)</b>		<input type="text" value="ATLANTA"/> CITY <input type="text" value="GA"/> STATE	
<input type="text" value="1275"/>		<input type="text" value="30338"/> ZIP	
<input type="text" value="770-555-6789"/> <input type="text" value="WORK"/> ▾		1285	
<input type="text" value="404-555-1234"/> <input type="text" value="HOME"/> ▾			
<input type="text" value="678-555-5432"/> <input type="text" value="CELL"/> ▾			
<b>DESCRIPTION</b>			
CURLY HAS TWO BROTHERS, MOE AND SHEMP. SHEMP IS NOT TOO FUNNY. HIS BIRTHDAY IS IN AUGUST. DO NOT LEAVE HIM IN CHARGE.			
1290			
1295			
1235			

FIG. 12

110  
ADDRESS  
BOOK  
DATABASE

110 ADDRESS BOOK DATABASE				
<div>1310</div> <div>1320</div> <div>1330</div> <div>1340</div> <div>1350</div>				
ID	EMAIL ADDRESS	IM ADDRESS 1	IM ADDRESS 2	IM ADDRESS 3
C1 ID	C1 EMAIL ADDR. 1	C1 IM ADDR. 1	C1 ADDR. 2	C1 ADDR. 3
C2 ID	C2 EMAIL ADDR. 1	C2 IM ADDR. 1		
C3 ID		C3 IM ADDR. 1	C3 ADDR. 2	C3 ADDR. 3
C4 ID	C4 EMAIL ADDR. 1	C4 IM ADDR. 1	C4 ADDR. 2	
C5 ID	C5 EMAIL ADDR. 1			
C6 ID				
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
C <sub>I-1</sub> ID	C <sub>I-1</sub> EMAIL ADDR. 1			
C <sub>I</sub> ID	C <sub>I</sub> EMAIL ADDR. 1	C <sub>I</sub> IM ADDR. 1		
C <sub>I+1</sub> ID	C <sub>I+1</sub> EMAIL ADDR. 1	C <sub>I+1</sub> IM ADDR. 1		
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
C <sub>N-2</sub> ID		C <sub>N-2</sub> IM ADDR. 1	C <sub>N-2</sub> ADDR. 2	C <sub>N-2</sub> ADDR. 3
C <sub>N-1</sub> ID	C <sub>N-1</sub> EMAIL ADDR. 1	C <sub>N-1</sub> IM ADDR. 1	C <sub>N-1</sub> ADDR. 2	C <sub>N-1</sub> ADDR. 3
C <sub>N</sub> ID	C <sub>N</sub> EMAIL ADDR. 1	C <sub>N</sub> IM ADDR. 1	C <sub>N</sub> ADDR. 2	C <sub>N</sub> ADDR. 3

FIG. 13A

110  
ADDRESS  
BOOK  
DATABASE

110 ADDRESS BOOK DATABASE (XML-STRUCTURED DATABASE)				
<div>1310</div> <div>1320</div> <div>1330</div> <div>1340</div> <div>1350</div>				
ID	EMAIL ADDRESS	IM ADDRESS 1	PHONE NO.	FAX NUMBER
C1 ID	C1 EMAIL ADDR. 1	C1 IM ADDR. 1	C1 PH. NO.	C1 FAX NO.
C2 ID	C2 EMAIL ADDR. 1	C2 IM ADDR. 1		
C3 ID		C3 IM ADDR. 1	C3 PH. NO.	C3 FAX NO.
C4 ID	C4 EMAIL ADDR. 1	C4 IM ADDR. 1	C4 PH. NO.	
C5 ID	C5 EMAIL ADDR. 1		C5 PH. NO.	C5 FAX NO.
C6 ID			C6 PH. NO.	C6 FAX NO.
.	.	.	.	.
C <sub>I-1</sub> ID	C <sub>I-1</sub> EMAIL ADDR. 1		C <sub>I-1</sub> PH. NO.	C <sub>I-1</sub> FAX NO.
C <sub>I</sub> ID	C <sub>I</sub> EMAIL ADDR. 1	C <sub>I</sub> IM ADDR. 1		
C <sub>I+1</sub> ID	C <sub>I+1</sub> EMAIL ADDR. 1	C <sub>I+1</sub> IM ADDR. 1		C <sub>I+1</sub> FAX NO.
.	.	.	.	.
C <sub>N-2</sub> ID		C <sub>N-2</sub> IM ADDR. 1	C <sub>N-2</sub> PH. NO.	C <sub>N-2</sub> FAX NO.
C <sub>N-1</sub> ID	C <sub>N-1</sub> EMAIL ADDR. 1	C <sub>N-1</sub> IM ADDR. 1	C <sub>N-1</sub> PH. NO.	C <sub>N-1</sub> FAX NO.
C <sub>N</sub> ID	C <sub>N</sub> EMAIL ADDR. 1	C <sub>N</sub> IM ADDR. 1	C <sub>N</sub> PH. NO.	C <sub>N</sub> FAX NO.

FIG. 13B

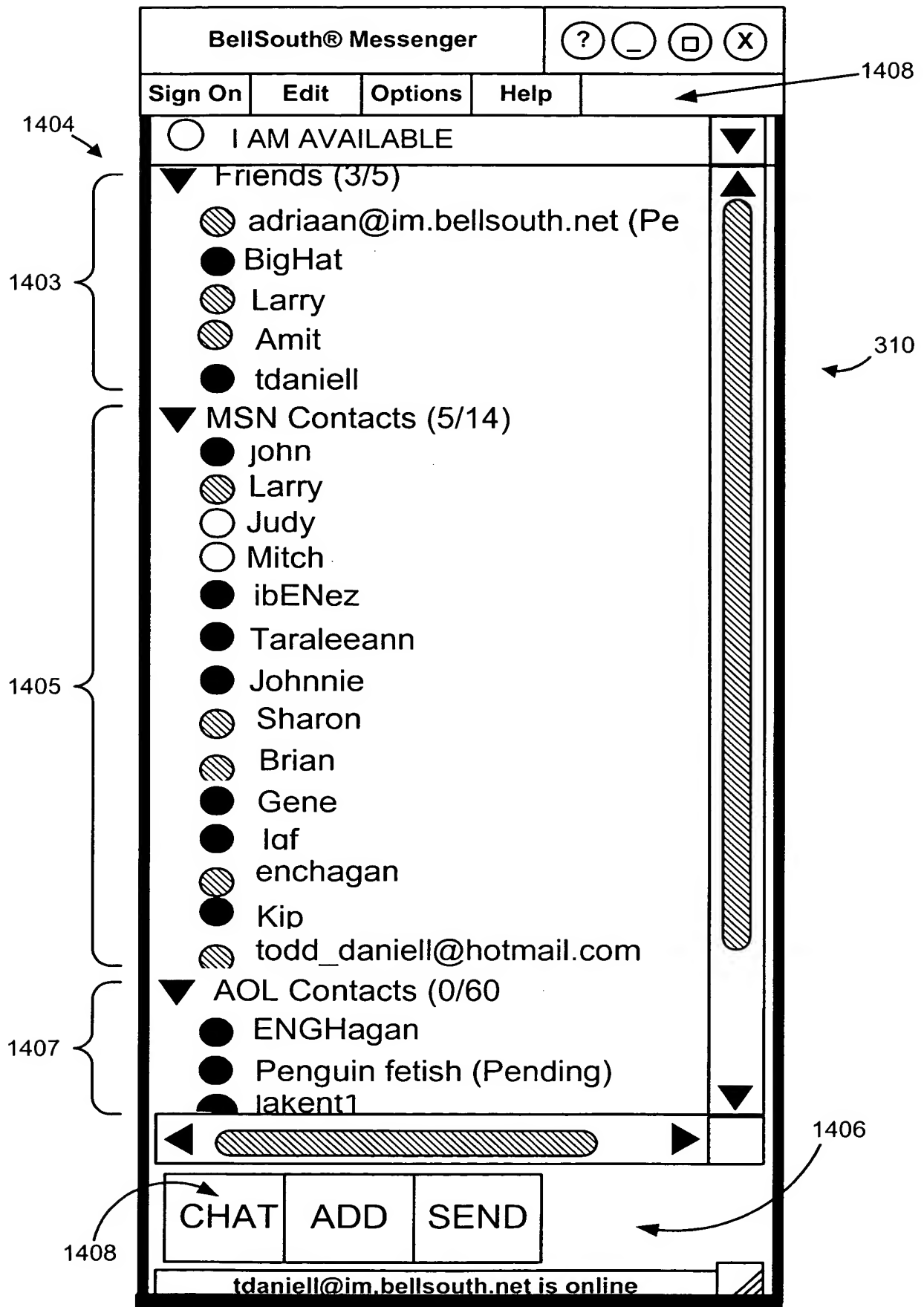
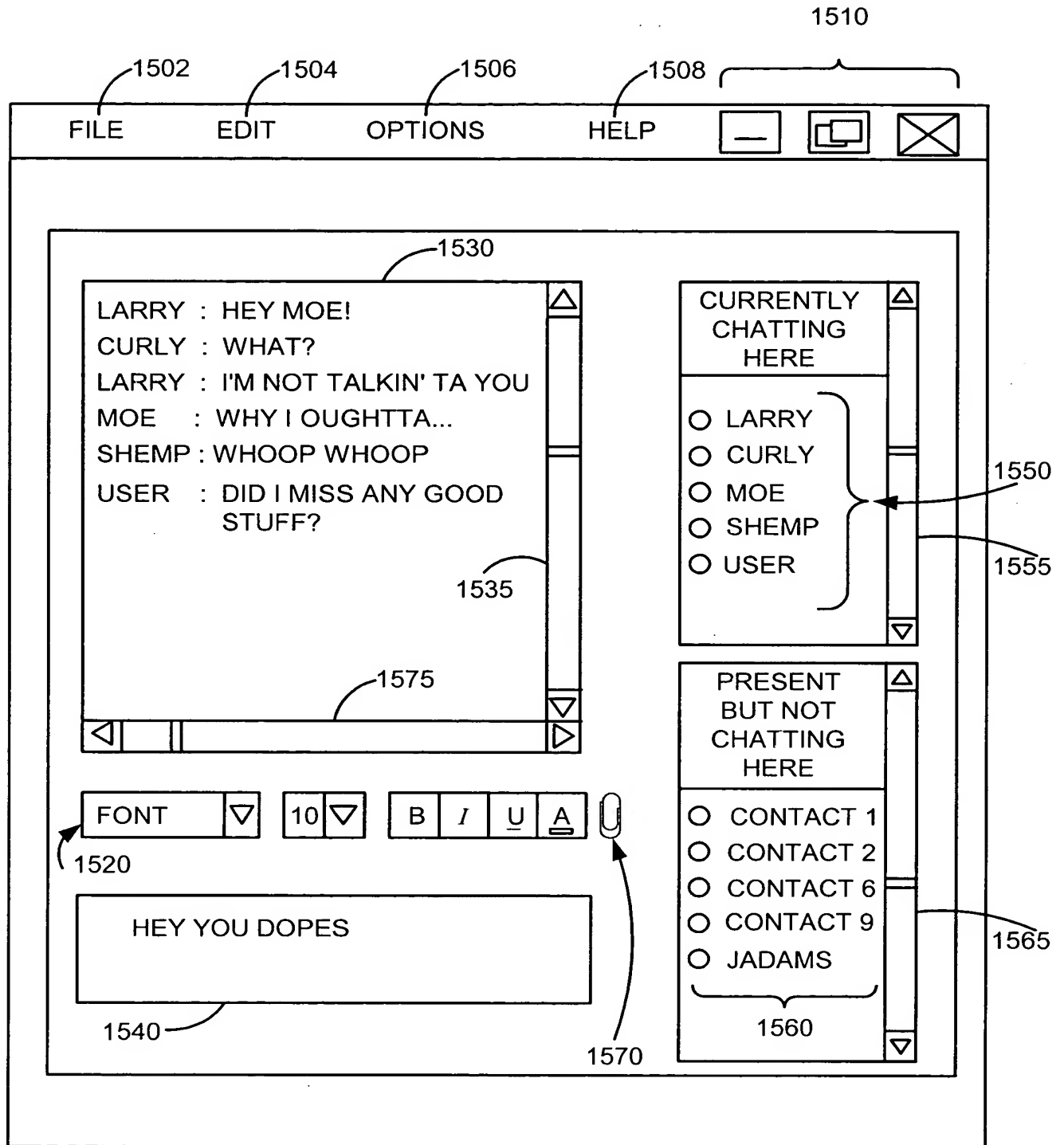


FIG. 14



614 ↗

FIG. 15



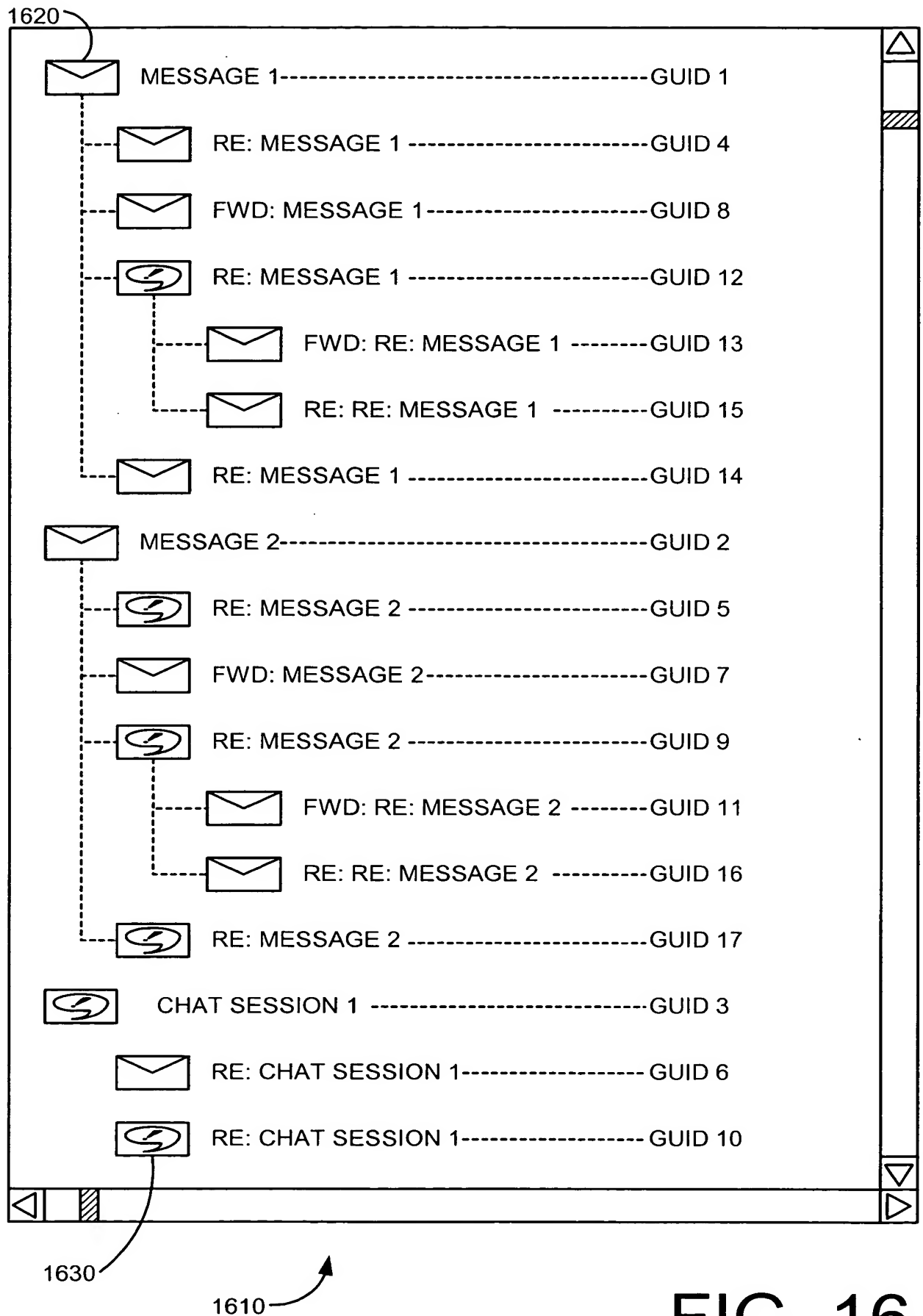


FIG. 16

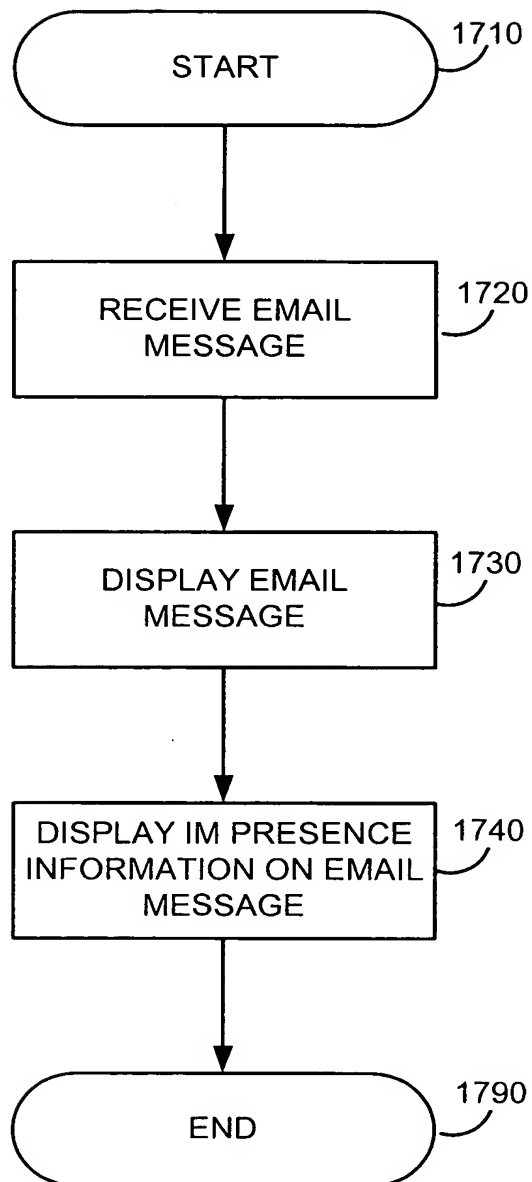


FIG. 17

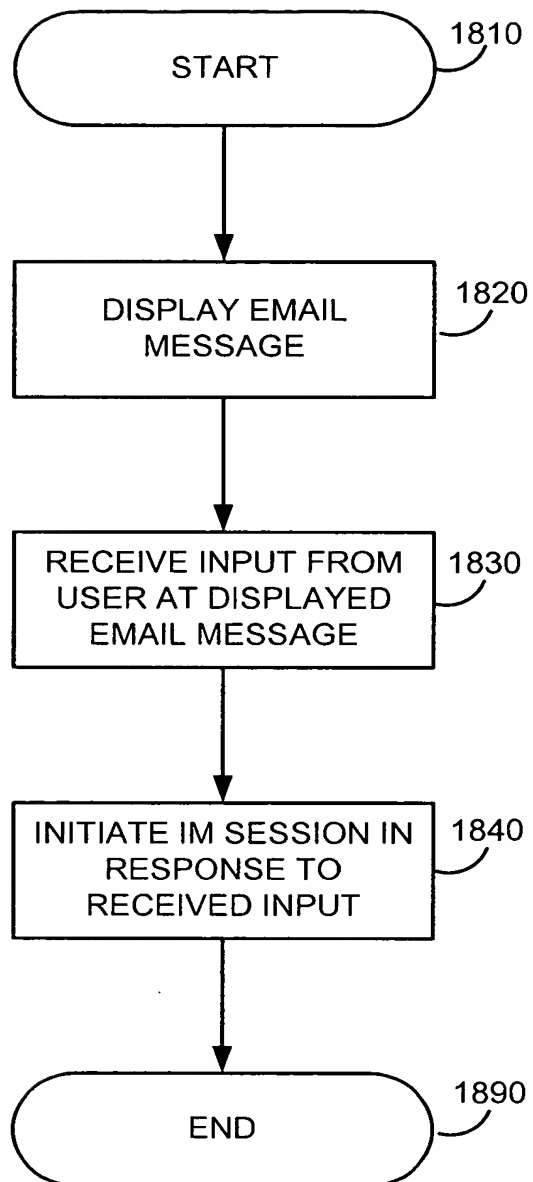


FIG. 18

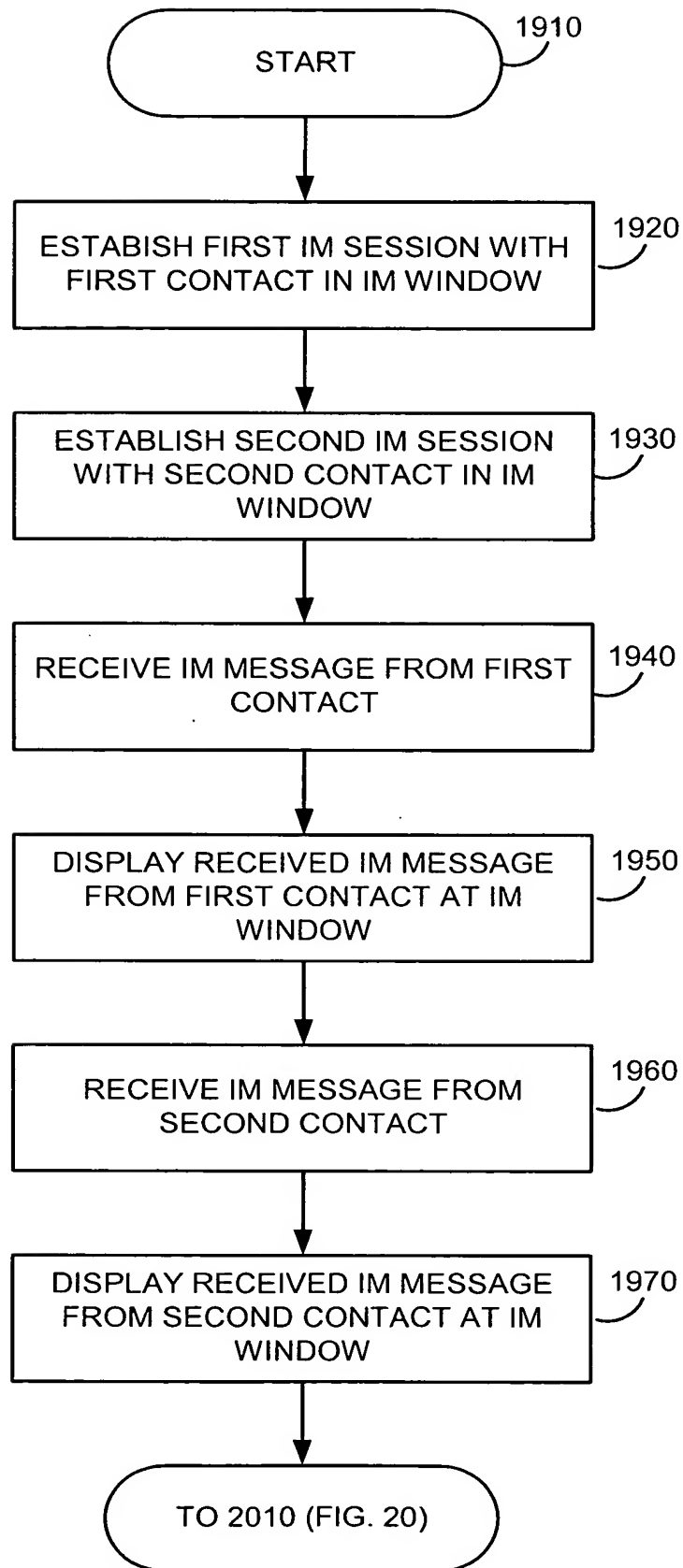


FIG. 19

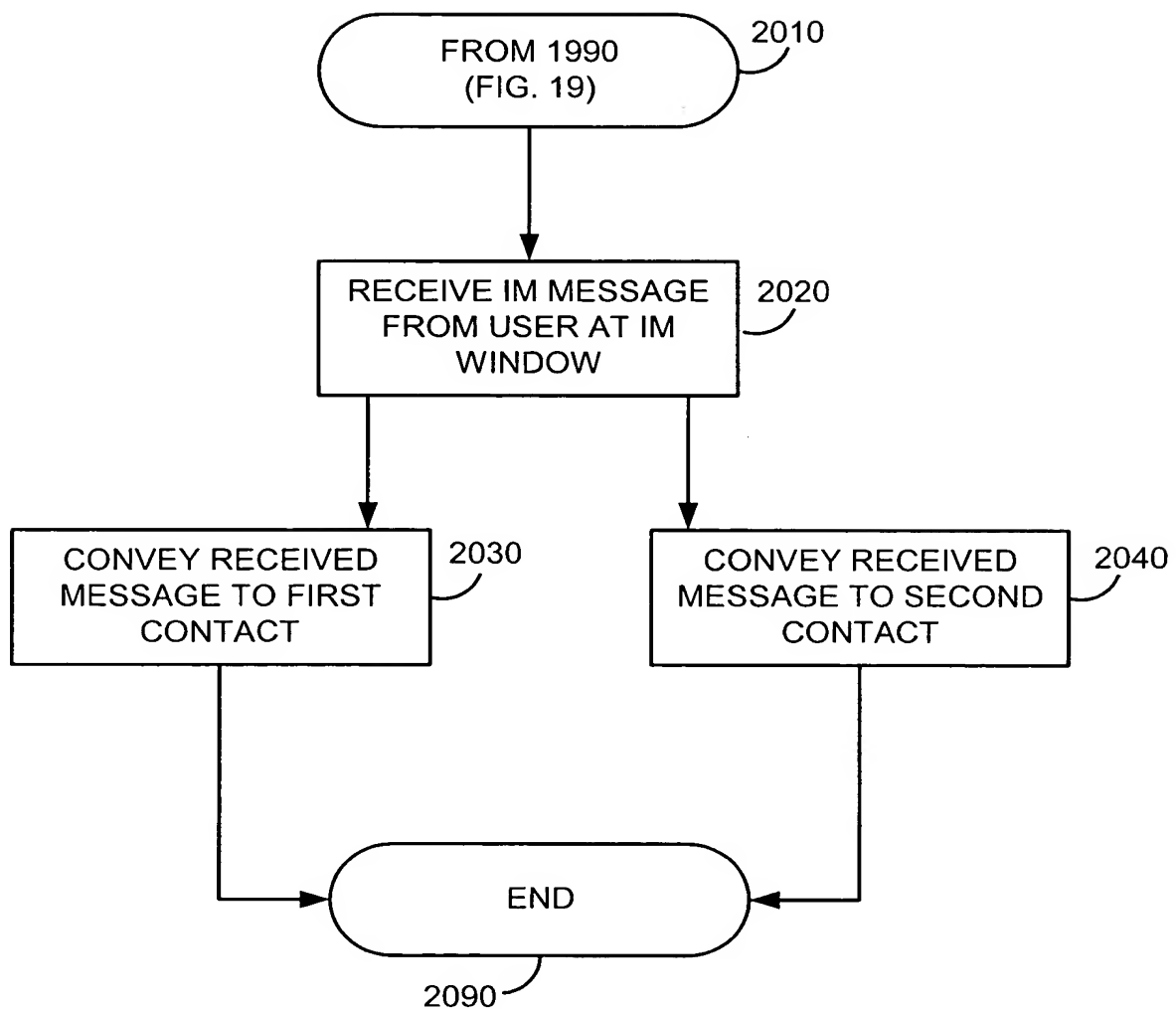


FIG. 20

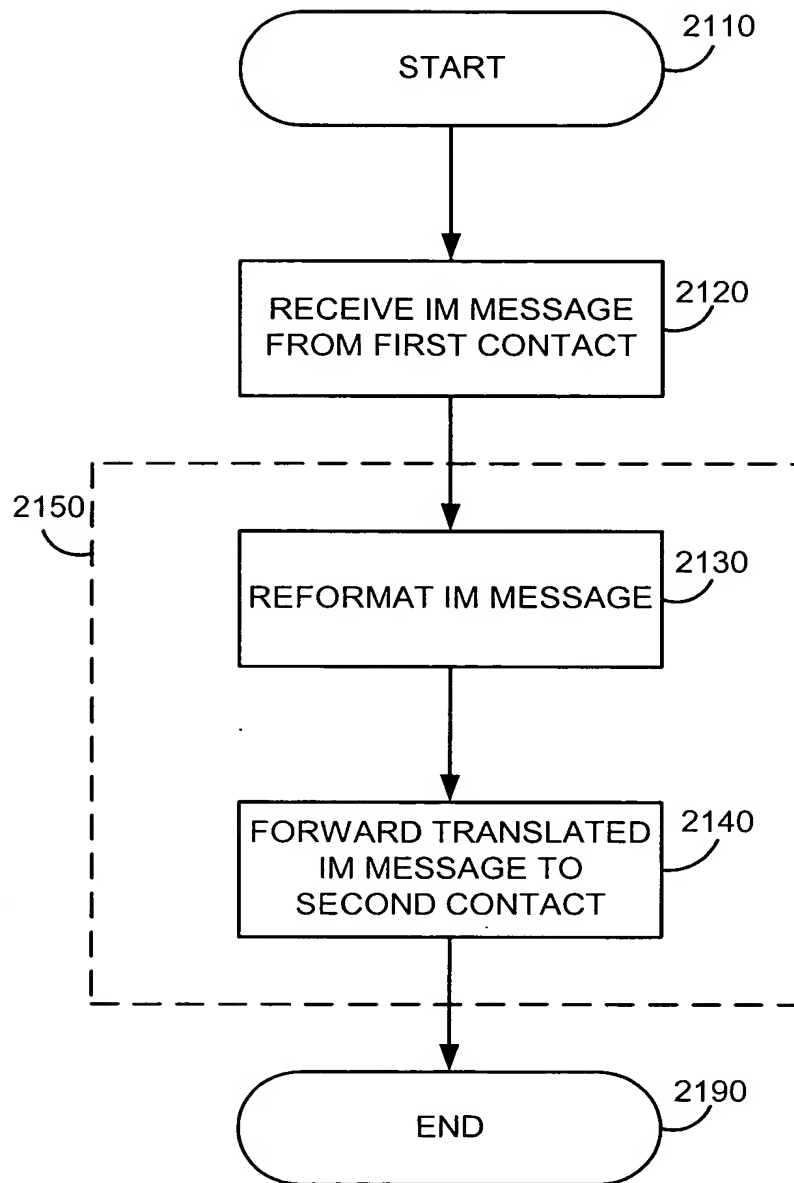


FIG. 21

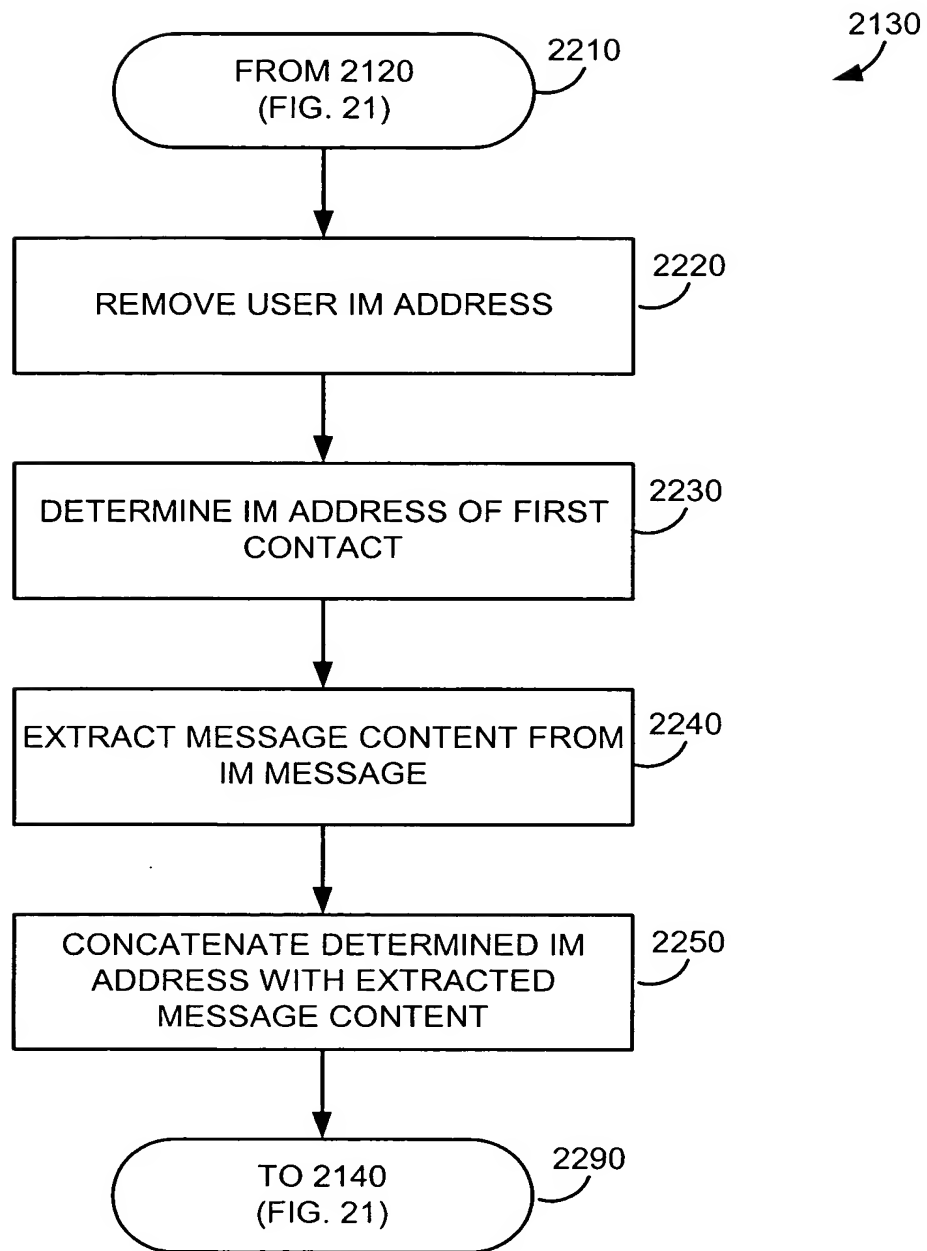


FIG. 22

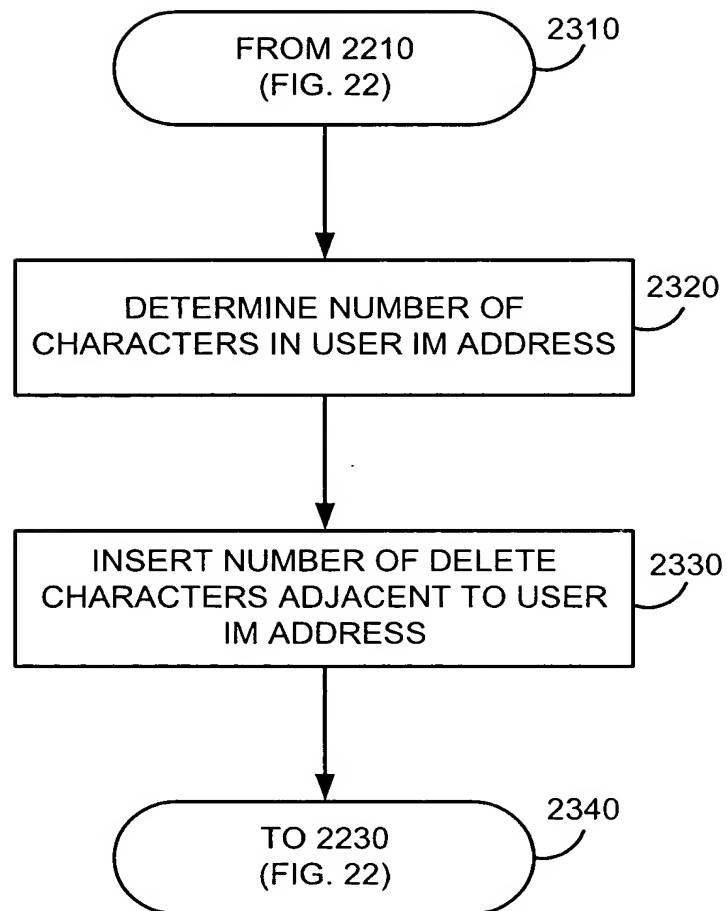


FIG. 23



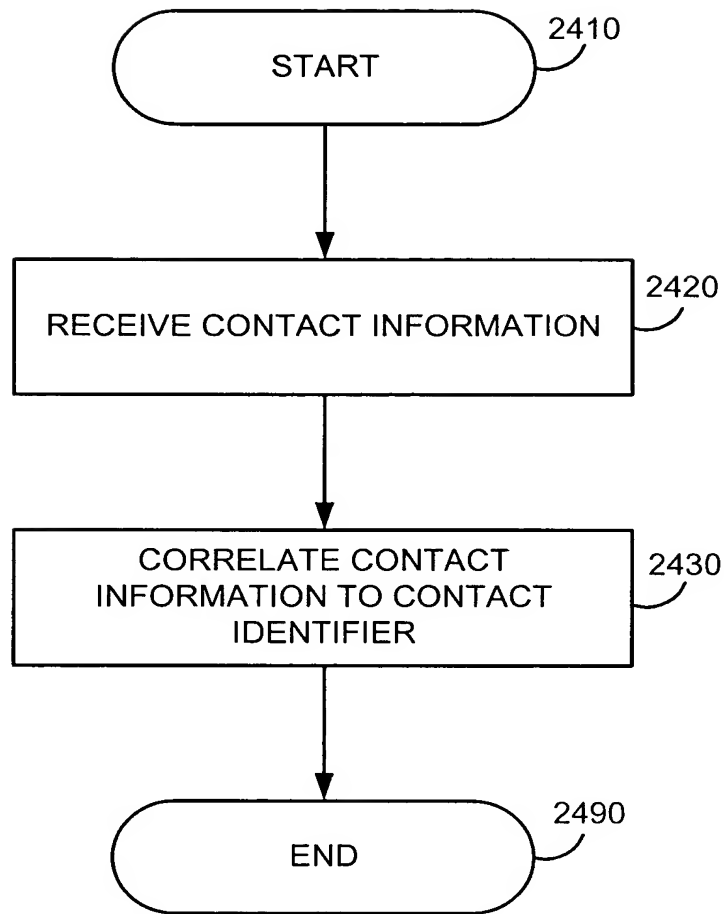


FIG. 24

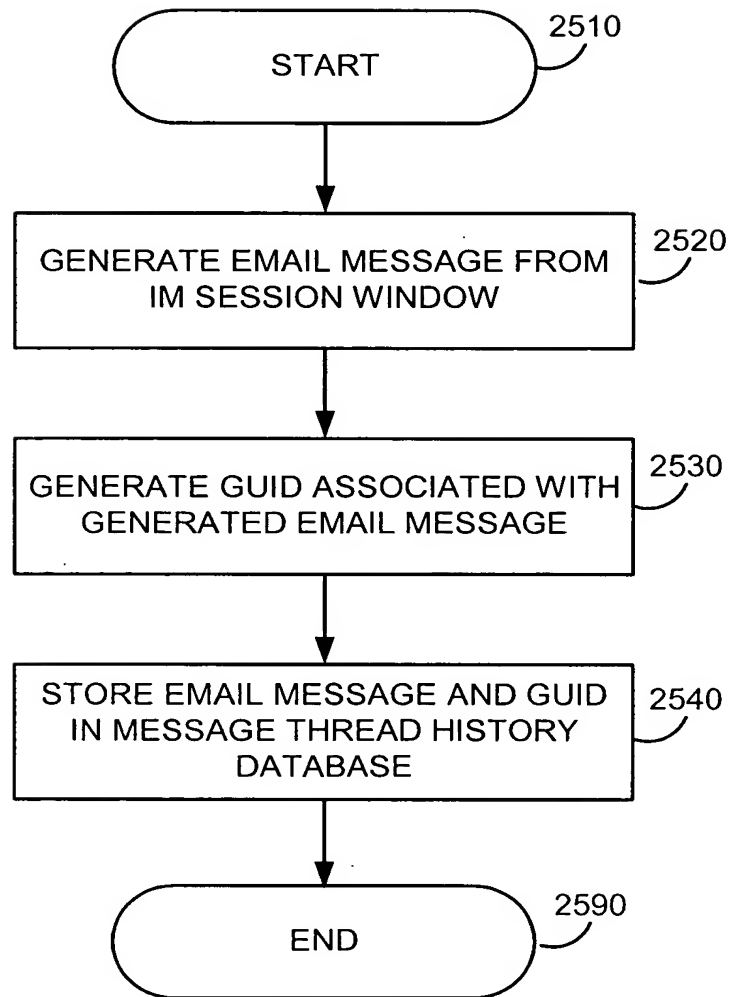


FIG. 25

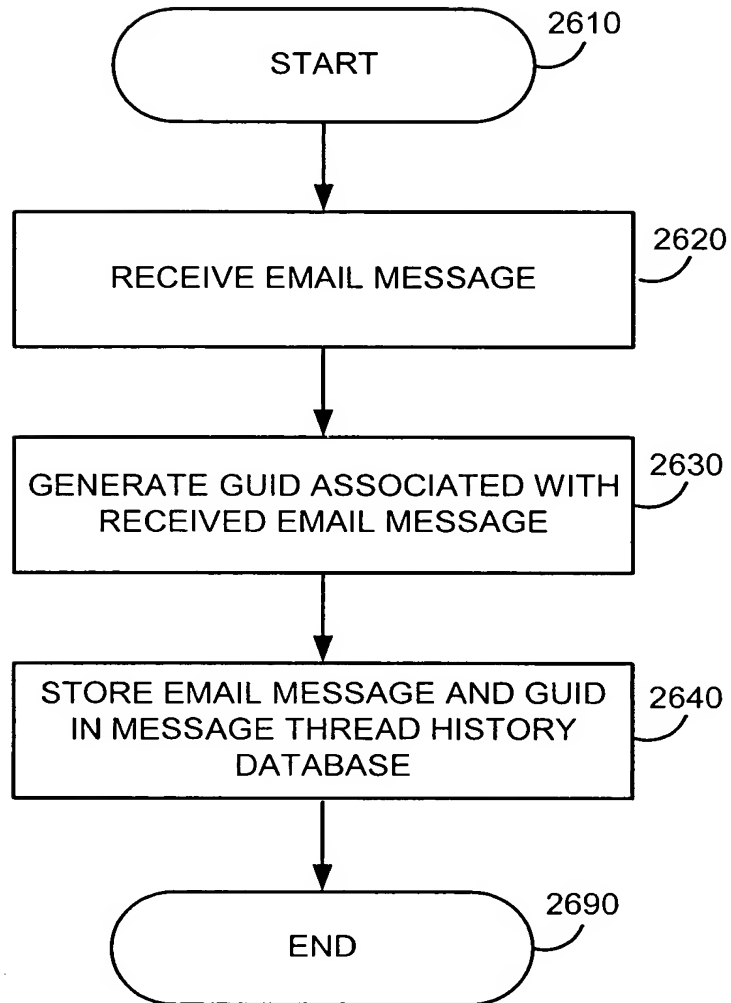


FIG. 26

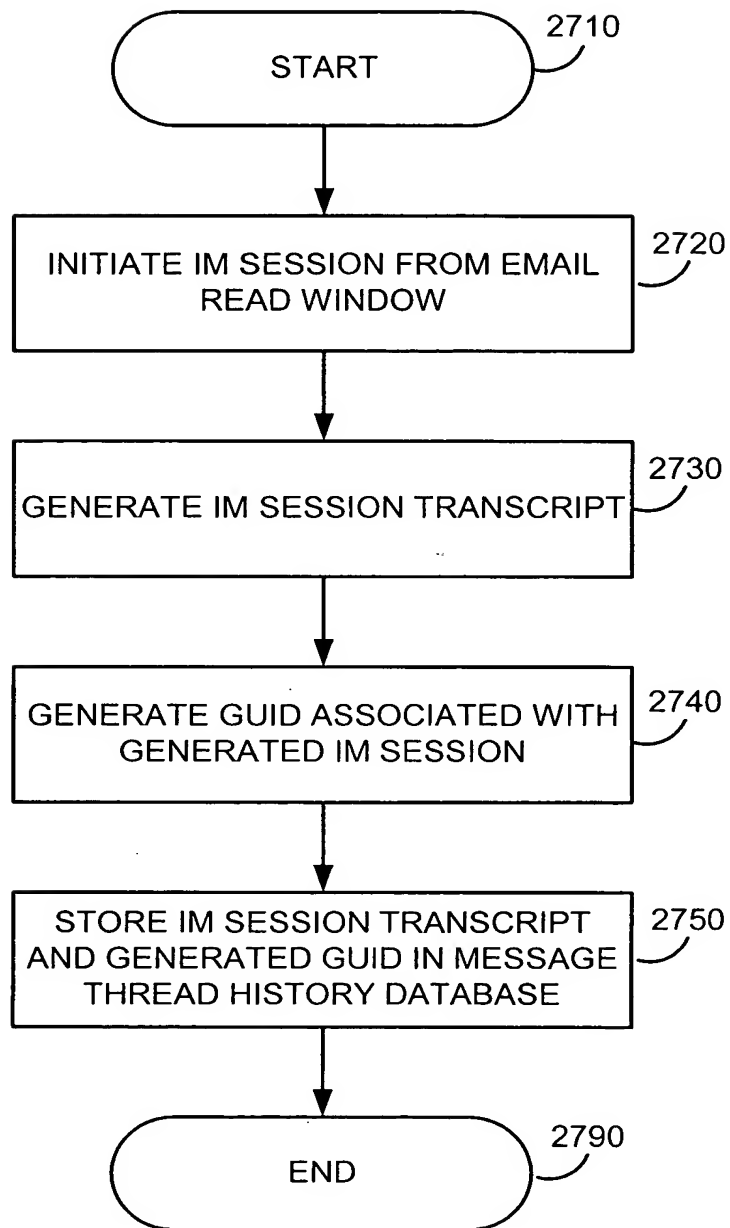


FIG. 27

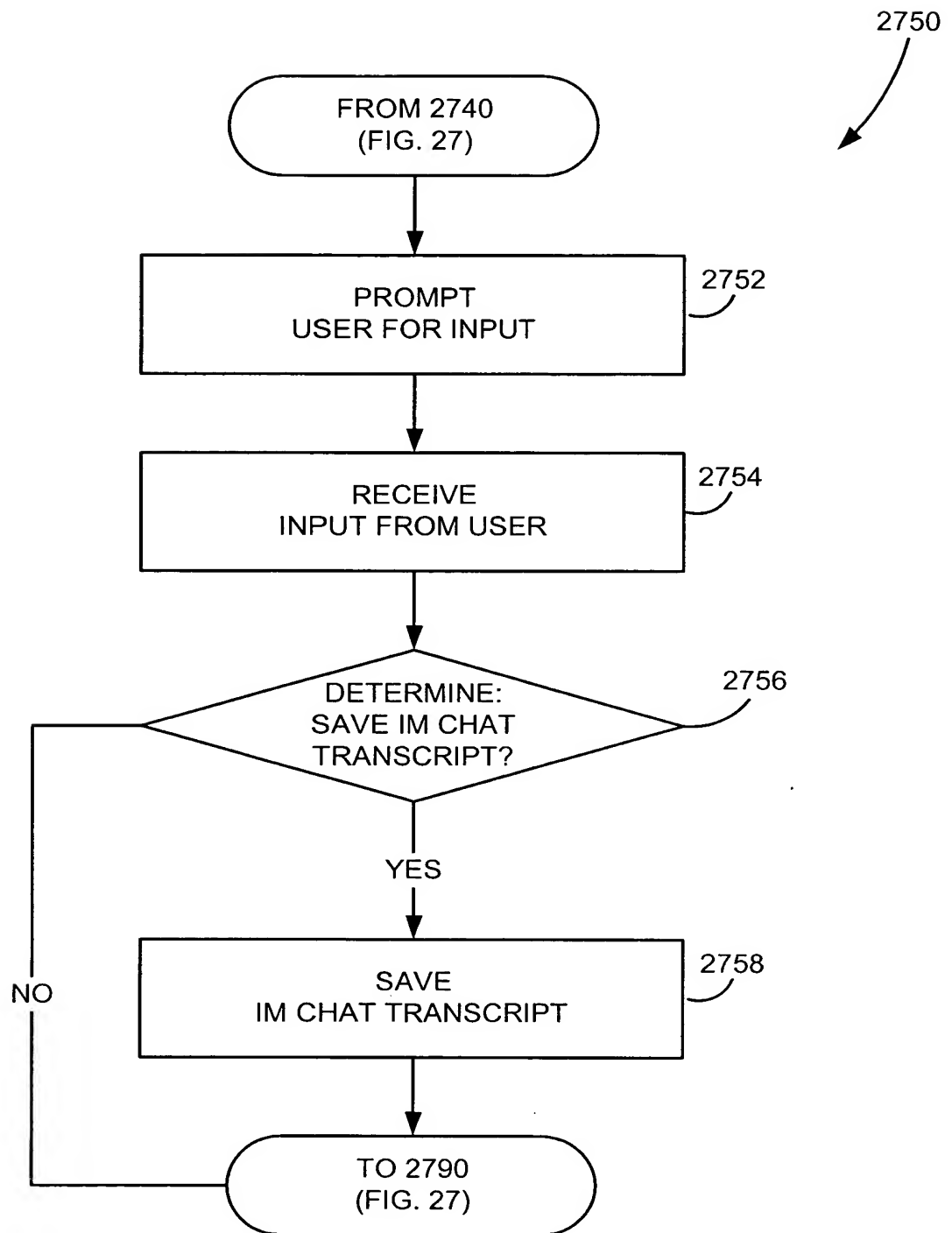
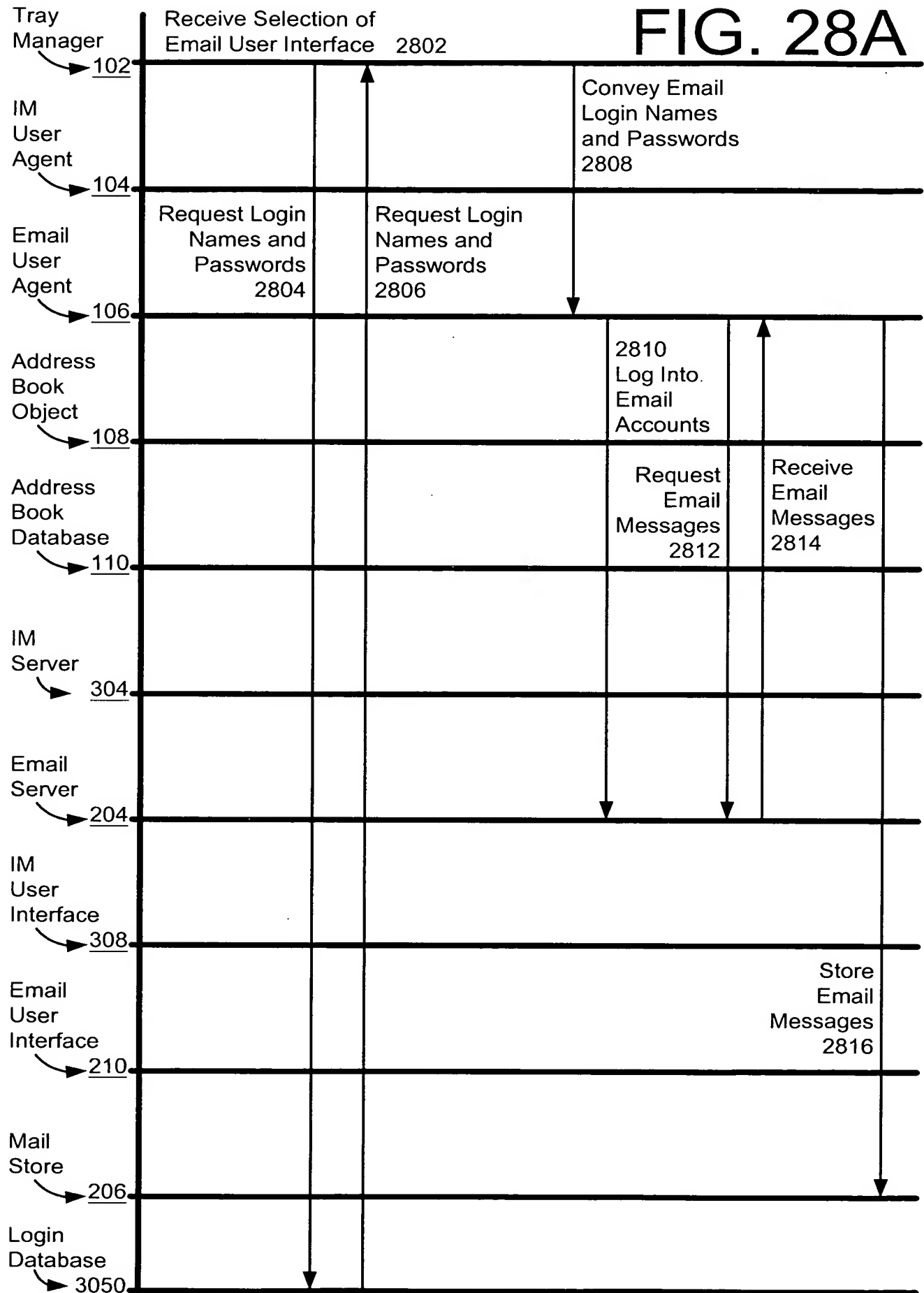
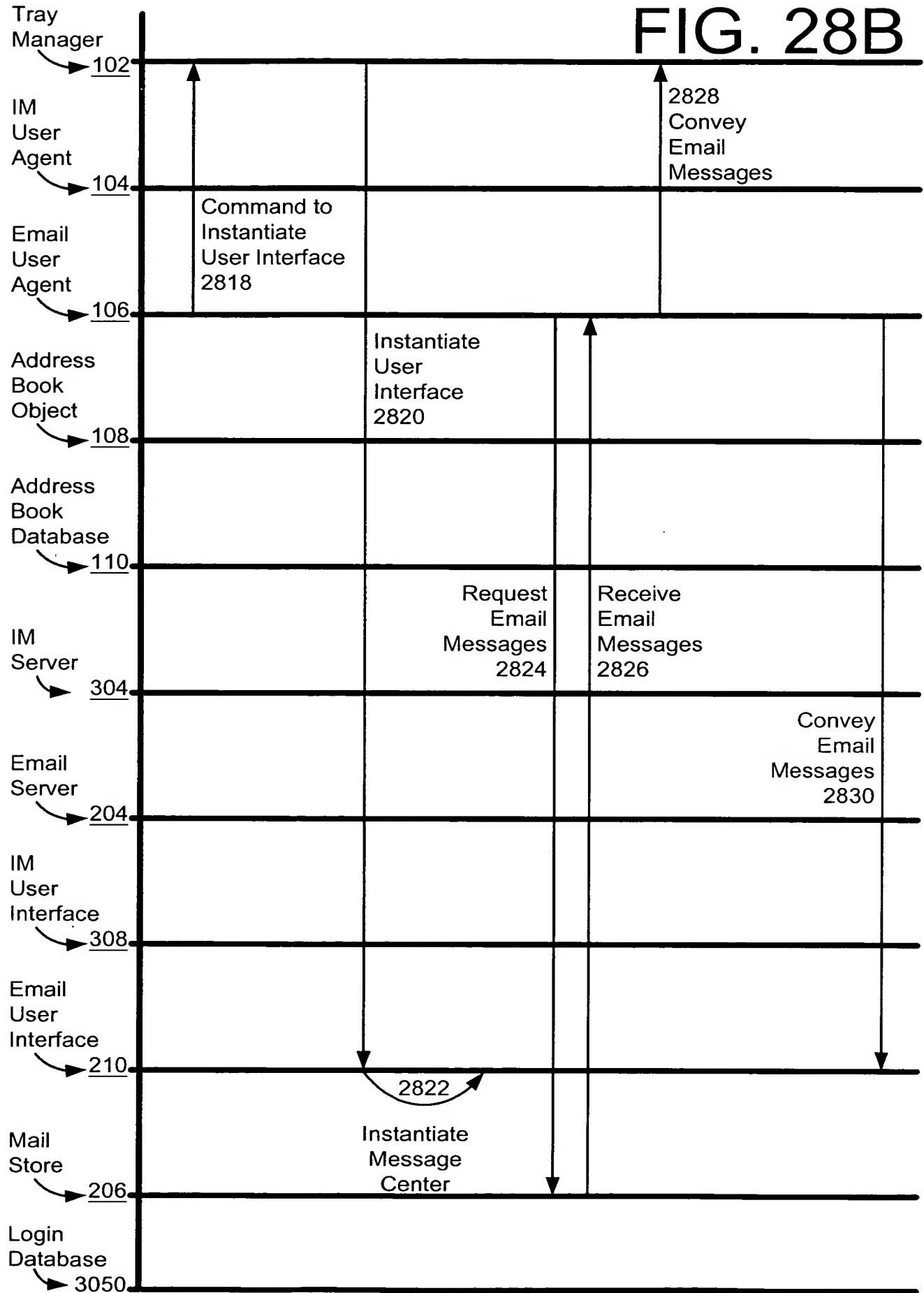


FIG. 27A

Tray Manager	Receive Selection of Email User Interface	2802
--------------	---	------



# FIG. 28B

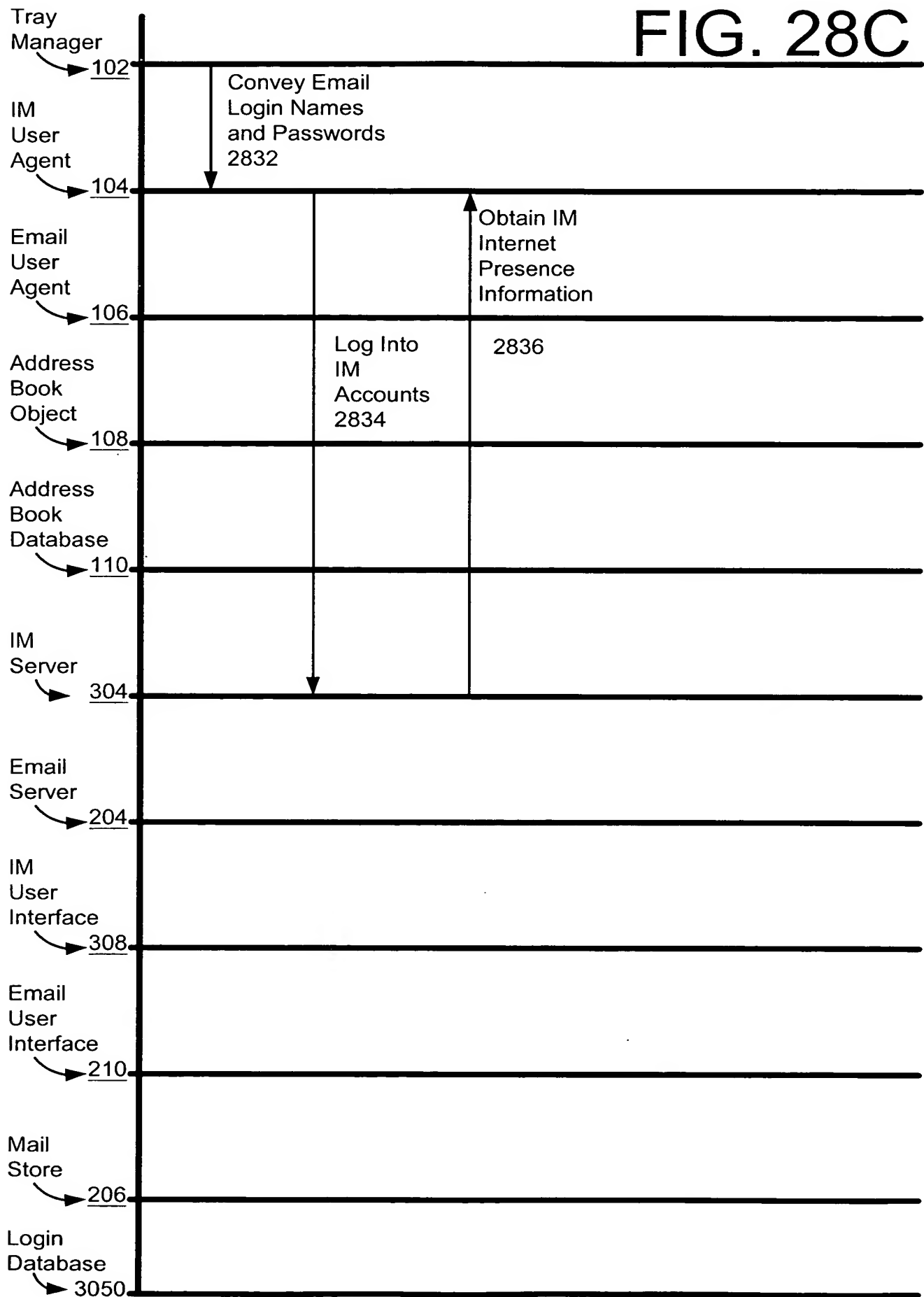


# FIG. 28C

```
sequenceDiagram
    participant TM as Tray Manager 102
    participant IUA as IM User Agent 104
    participant EUA as Email User Agent 106
    participant ABO as Address Book Object 108
    participant ABD as Address Book Database 110
    participant IS as IM Server 304
    participant ES as Email Server 204
    participant IUI as IM User Interface 308
    participant EUI as Email User Interface 210
    participant MS as Mail Store 206
    participant LD as Login Database 3050

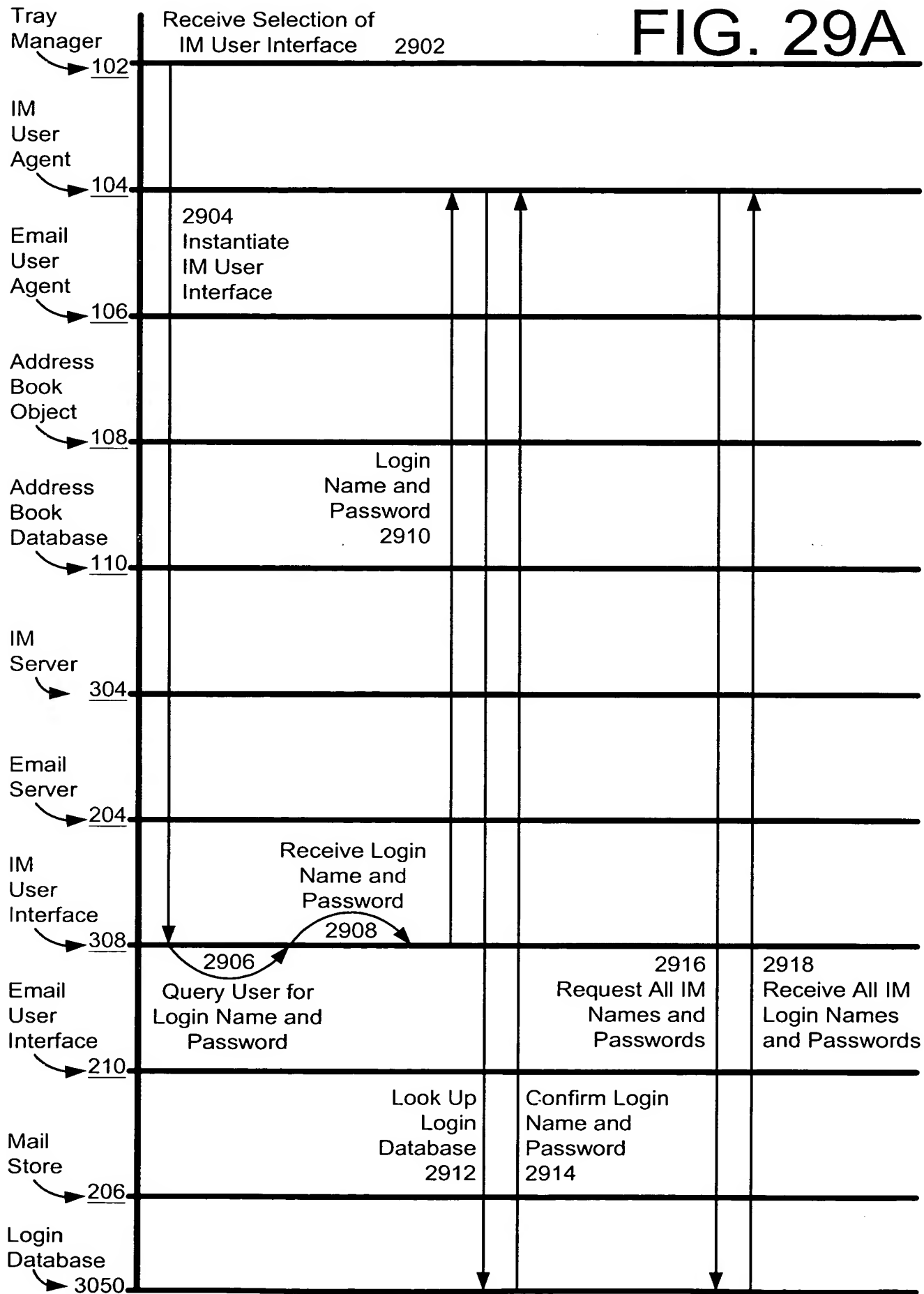
    TM->>IUA: Convey Email Login Names and Passwords 2832
    IUA->>EUA: Obtain IM Internet Presence Information
    EUA->>ABO: Log Into IM Accounts 2834
    ABO->>IS: 
    IS->>ES: 
    ES->>IUI: 
    IUI->>EUI: 
    EUI->>MS: 
    MS->>LD: 
```

The diagram illustrates a sequence of interactions between various components in a system. The components are listed on the left side, each with a reference numeral: Tray Manager (102), IM User Agent (104), Email User Agent (106), Address Book Object (108), Address Book Database (110), IM Server (304), Email Server (204), IM User Interface (308), Email User Interface (210), Mail Store (206), and Login Database (3050). The interactions are as follows: 1. Tray Manager (102) sends a message to IM User Agent (104) labeled "Convey Email Login Names and Passwords 2832". 2. IM User Agent (104) sends a message to Email User Agent (106) labeled "Obtain IM Internet Presence Information". 3. Email User Agent (106) sends a message to Address Book Object (108) labeled "Log Into IM Accounts 2834". 4. Address Book Object (108) sends a message to IM Server (304). 5. IM Server (304) sends a message to Email Server (204). 6. Email Server (204) sends a message to IM User Interface (308). 7. IM User Interface (308) sends a message to Email User Interface (210). 8. Email User Interface (210) sends a message to Mail Store (206). 9. Mail Store (206) sends a message to Login Database (3050).





# FIG. 29A



# FIG. 29B

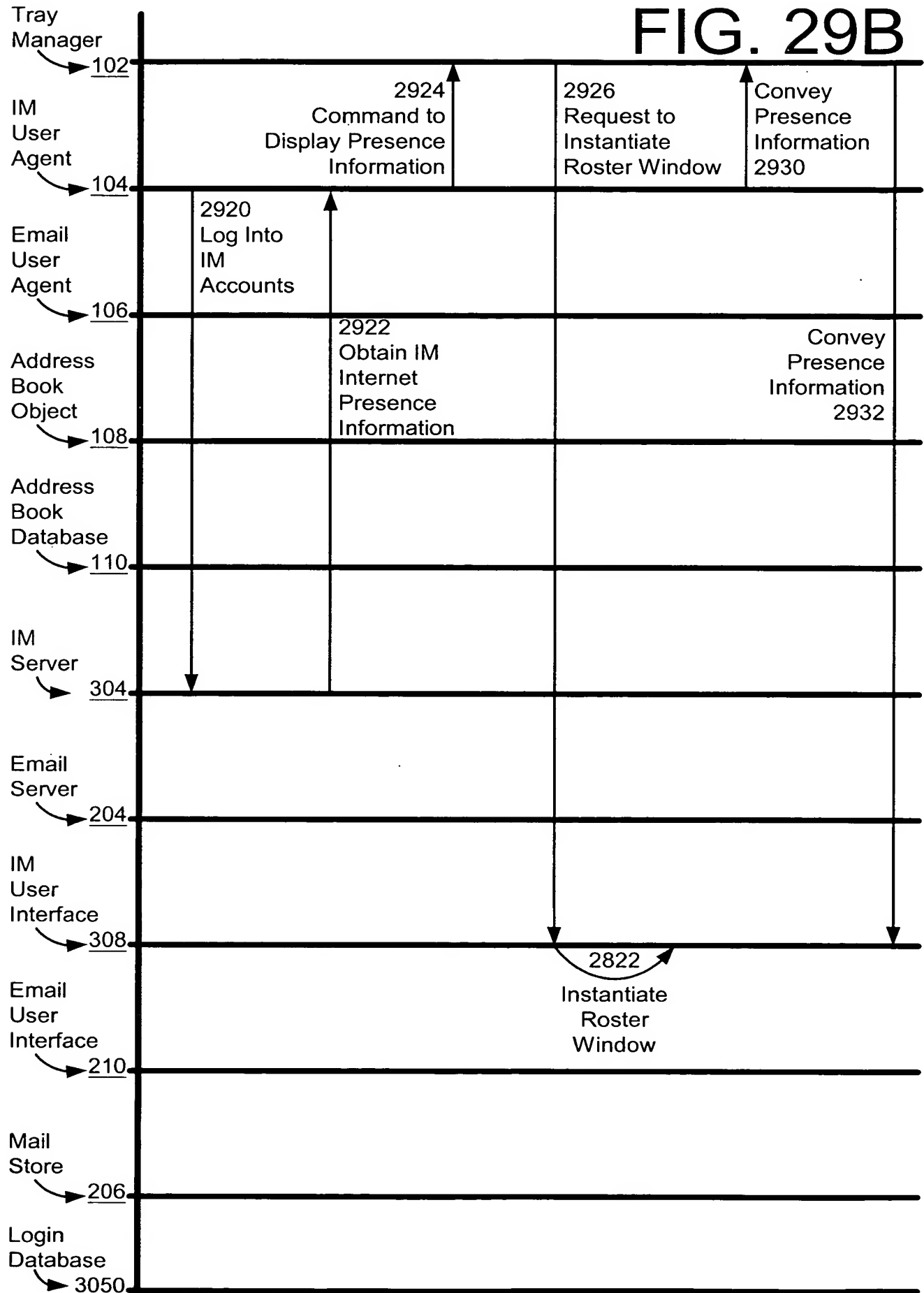
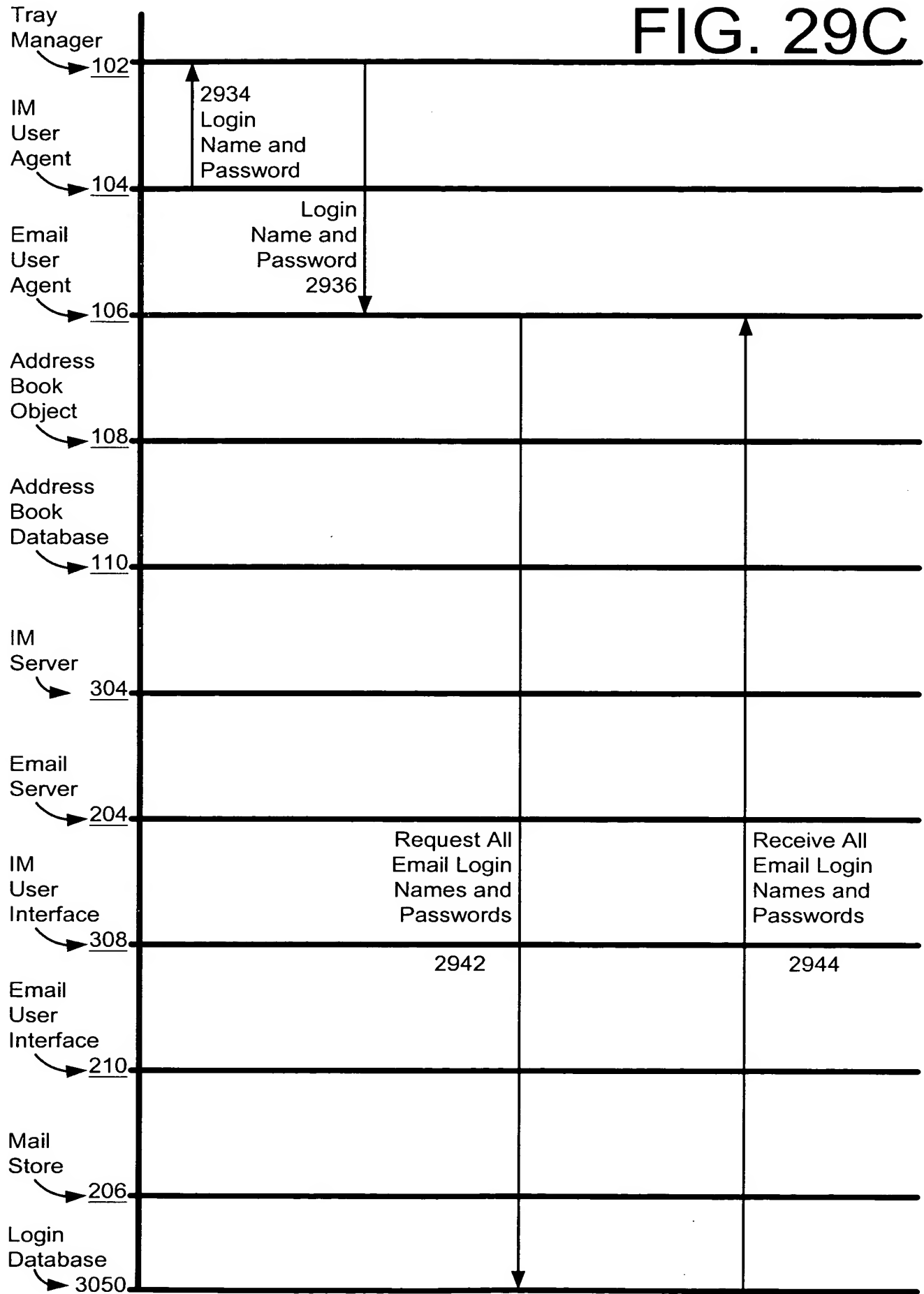


FIG. 29C



# FIG. 29D

```
sequenceDiagram\n    participant TM as Tray Manager 102\n    participant IMA as IM User Agent 104\n    participant EUA as Email User Agent 106\n    participant ABO as Address Book Object 108\n    participant ABD as Address Book Database 110\n    participant IMS as IM Server 304\n    participant ES as Email Server 204\n    participant IUI as IM User Interface 308\n    participant EUI as Email User Interface 210\n    participant MS as Mail Store 206\n    participant LD as Login Database 3050\n\n    Note over ABO: Log Into Email Accounts 2946\n    ABO->>IMA\n    IMA->>EUA\n    EUI->>ES\n    ES->>IMS\n    Note over IMS: Request Email Messages 2948\n    IMS->>ES\n    Note over ES: Receive Email Messages 2950\n    ES->>MS\n    Note over MS: Store Email Messages 2952\n    MS->>EUI\n    EUI->>LD
```

The sequence diagram illustrates the following steps:

- Log Into Email Accounts 2946**: Initiated by the Address Book Object.
- Request Email Messages 2948**: Sent from the IM Server to the Email Server.
- Receive Email Messages 2950**: Received by the Email Server from the IM Server.
- Store Email Messages 2952**: Performed by the Mail Store.

IM  
User  
Agent

A curved arrow points from the text 'IM User Agent' to the number '104'.

104

Email  
User  
Agent

A curved arrow points from the text 'Email User Agent' to the text '106.' which is underlined.

Address  
Book  
Object  
    108.

Address  
Book  
Database  
→ 110.


IM  
Server → 304.

Email  
Server

204.


The diagram shows a curved arrow pointing from the text 'Email Server' to the IP address '204.'.

IM  
User  
Interface



308.

Email  
User  
Interface



210

Mail Store → 206.

Login Database

3050

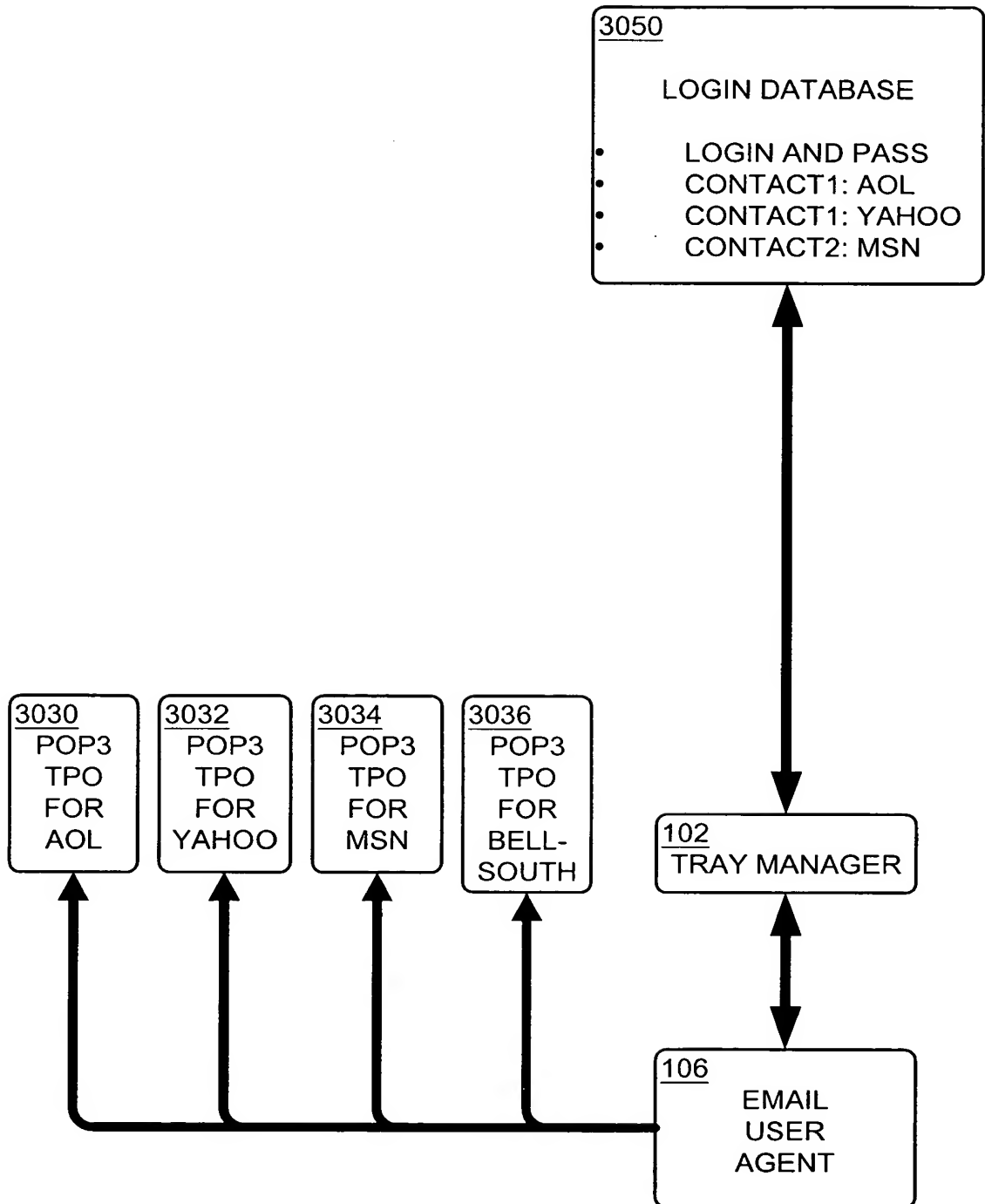


FIG. 30

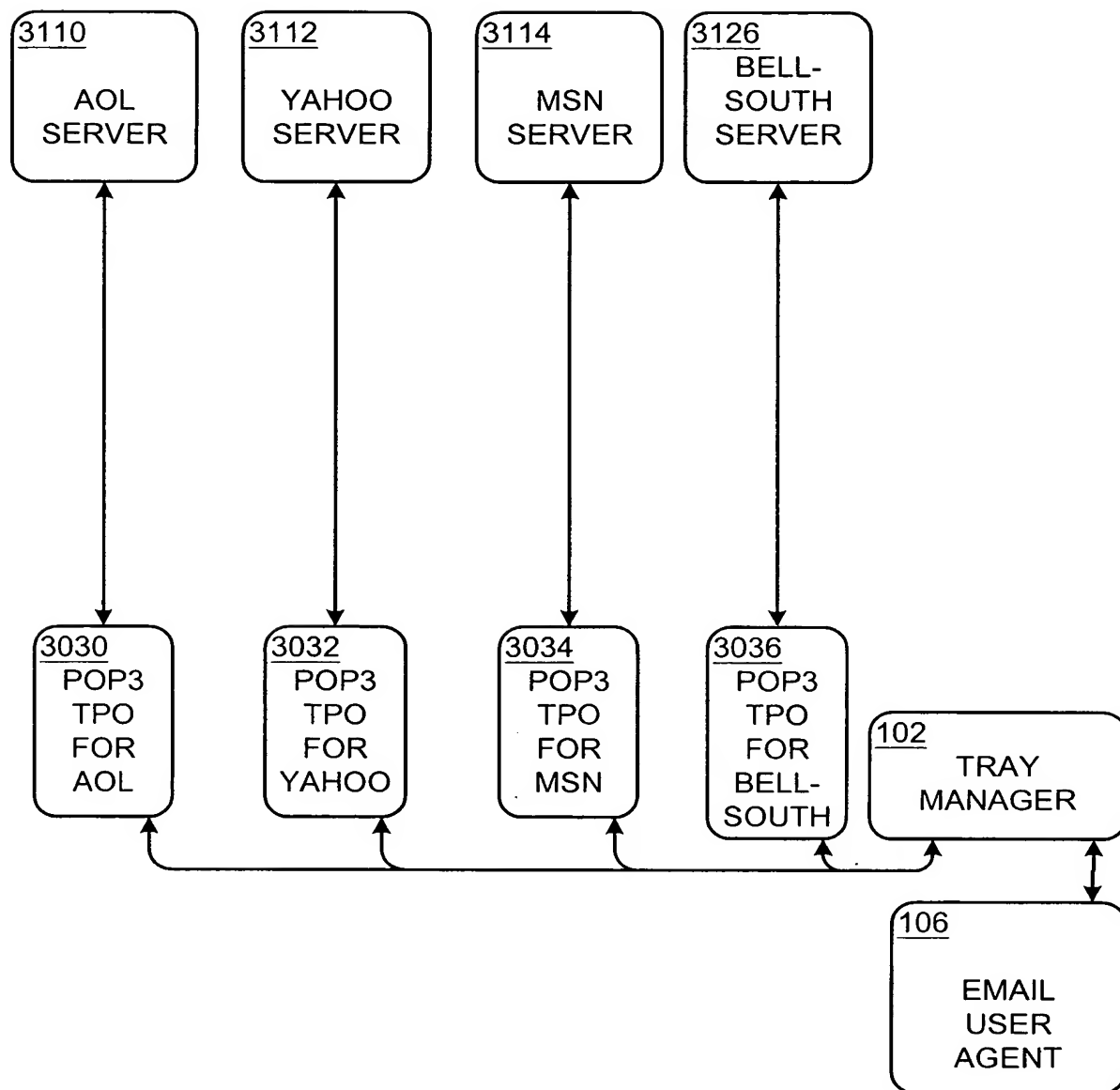


FIG. 31